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TWO WEEKS MORE.

This is the limit that advertisers may reckon upon for securing an insertion in the

Summer Issue of

The Chemist and Druggist.

The publication date is JULY 25, but the preparatory work entailed makes it necessary to have everything ready well in advance. If your inset or your "copy" for the white-paper advertisement-pages is not in hand, please attend to it at once and forward to

THE PUBLISHER,

THE CHEMIST AND DRUGGIST,
42 Cannon Street, London, E.C.

SUMMARY.

Subscribers are advised to read this column first.

Articles and Communications.

The subject of this week's article on botany for the Minor is the broom (p. 34).

The British Government is taking steps to amend internal law so as to make it conform with the principle of the Opium Convention (p. 46).

Mr. Geo. Cormack replies on the whole question of Drug-tariff reform, showing in a final table how the profit varies in percentage (p. 71).

Territorial representation is not likely to occupy much of the Associations-Conference time, as the Executive Committee majority object to disturb the *status quo* (p. 56).

The number of deaths in England and Wales from poisons and poisonous vapours during 1912 was 1,141. Particulars from the report of the Registrar-General are given on p. 44.

We give concise particulars of revised regulations regarding the sampling of tinctures and perfumery exported under drawback, and of new regulations for exportation of perfumes by parcel-post (p. 47).

In a valuable series of tables Mr. C. A. Hill, B.Sc., F.I.C., gives the results of many thousands of tests of pharmaceutical chemicals during the years 1910-13, showing how far they conformed with limits of impurity, especially in regard to lead and arsenic (pp. 49-55). We point out that since 1908, when Mr. Hill first dealt with chemical standards, conditions have changed in regard to some of them (p. 48).

News of the Week.

Permission has been given to import into France two of the Hoechst serums (p. 37).

A report of the annual dinner of the French Wholesale Druggists' Association is given on p. 37.

Mr. Purdue, an East-end herbalist, has again been convicted under the Apothecaries Act (p. 39).

The death of the Earl of Wemyss recalls his connection with pharmacy legislation in 1865 (p. 48).

A few of the titles of papers to be read at the British Pharmaceutical Conference are stated on p. 34.

Medicated socks are liable to stamp duty, it has been held at the Mansion House Court, London (p. 39).

Two Chinamen in London sold opium to the Pharmaceutical Society's detective, and have been fined (p. 39).

The inspection of ships' medicine-chests has been the subject of another question in the House of Commons (p. 43).

The South African Bill to consolidate the Medical, Dental, and Pharmacy Acts is in draft, and has been considered by the Orange Free State Council (p. 70).

Mr. George Anderson, the C. & D. representative in London, died suddenly last Sunday. We also learn of the sudden death of Mr. Maclure Savege, Madras (p. 42).

The Recorder of Blackburn holds that Messrs. Stafford Allen & Sons, Ltd., were wrongly convicted in the white-pepper case. We give his judgment in full (pp. 66-67).

The President of the British Columbia Pharmaceutical Association declares that the time is not ripe for reciprocity of pharmaceutical diplomas between the Canadian provinces (p. 38).

The awards were made of the Jacob Bell scholarships at the meeting on Wednesday of the Pharmaceutical Council. The two scholars are Mr. Chell and Mr. Watson. Mr. Barlow was also awarded the Manchester scholarship (p. 61).

Mr. Hannah, of Amersfoort, Transvaal, on July 2 again appeared before the Judicial Committee of the Privy Council in regard to his conviction under the Transvaal Ordinance 29 of 1904. The Judicial Committee, however, refused to hear appellant as he had no new point to place before them (p. 48).

Trade and Market Matters.

Special information relating to the world's vanilla-crops and market conditions are printed on p. 65.

Santonin, aloin, ammonia sulphate, belladonna-root, and turpentine are dearer. Bayberry-bark, morphine, thymol, and carbolic acid are firmer. Quicksilver (seconds), lemon oil, arsenic, balsam tolu, and copper sulphate are easier. Apiol, arrowroot, benzols, and cinnamon are lower (p. 62).

B

Minor Botany.

Being the twenty-second of a series of articles for pharmacy students which commenced on January 2, 1914.

THE *Leguminosae* do not appear at first sight closely allied to the *Rosaceae*, but the transitional forms, of which *Acacia* is one, approach each other so closely that the principal distinguishing factor of the former Natural Order is that the odd sepal of the five-lobed calyx is anterior (*i.e.*, nearest the observer when the flower is held so that the axis is behind it, the posterior side being the back of the flower nearest to the axis). The British species are quite distinctive, being papilionaceous (*papilio* = butterfly). In these the five free petals have a characteristic formation, the upper (posterior) petal, or



CYTISUS SCOPARIUS.

standard, forming a hood, the two lateral petals being termed the wings, the two lower petals being slightly adherent (connate) at their lower margins to form the keel, a boat-shaped organ enclosing ten stamens (which are perigynous, but not markedly so) and a unicarpellary ovary. Note that cohesion occurs in the stamens as well as the calyx, these being joined into a tube (monadelphous) or two bundles (diadelphous, *adelphos* = brother) consisting of nine stamens and a single posterior stamen. The fruit is termed a legume, being a fruit with several seeds derived from a monocarpellary ovary and splitting into two valves (like a ripe pea-pod).

The broom (*Cytisus Scoparius*, Link) belongs to this sub-order (*Papilionaceae*), and shows well this resemblance to a yellow butterfly settling down on a branch. The broom, which is indigenous to this country, is a plant growing to a height of about seven feet. The numerous flexible branches are directed upwards, the common name of the plant being derived from their resemblance to an (inverted) broom of twigs. The younger branches are dark green with five marked ridges or wings. The alternate, shortly stalked leaves are trifoliate (three leaflets), rather small, and comparatively inconspicuous. This reduction in leaf area is due to the green branches taking over part of the assimilatory functions of the leaves.

The leaves at the ends of branches and the young leaves are simple. The numerous fragrant yellow flowers appear in May or June singly in the axils of leaves. The long stamens are united into a single tube, these and the style being held under tension in the keel. When a bee alights on the keel (the wings and hood preventing any other mode of entry to the nectar), the flower "explodes," scattering a shower of pollen from the suddenly released stamens. The ripe pods also burst suddenly, throwing the seeds some distance as the valves twist upwards.

Brit. Phar. Conf.

A MEETING of the Executive Committee of the British Pharmaceutical Conference was held at 16 Bloomsbury Square, London, W.C., on Tuesday, June 30, at 5.30 p.m., Mr. E. H. Farr presiding. Others present were Messrs. E. Saville Peck, W. F. J. Shephard, T. Tyrer, J. C. Umney, D. Lloyd Howard, T. O. Barlow, F. W. Gamble, C. H. Hampshire, C. A. Hill, J. A. Thomas, G. Whitfield, H. Finnemore, and R. R. Bennett.

Mr. Finnemore reported that Mr. H. Kemp, of Manchester, had consented to act as chairman for Mr. Barlow's paper at Chester on "Business Science in Pharmacy."

The titles of the papers promised for the Science Section at Chester are as follows:

1. The adulterants of belladonna-leaves.
2. Incompatibility of strychnine with alkalies and with bromides and iodides.
3. Cinnamon oil.
4. The composition of the glycerophosphates of commerce.
5. Commercial standards for dried magnesium sulphate, sodium sulphate, and sodium phosphate.
6. Note on the analytical characters of benzoin.
7. An improved method of administering extract of male-fern.
8. Some uses of a tincture-press.
9. The purity of pepsin bacteriologically considered.
10. The mineral constituents of certain tinctures and drugs.
11. The place of carbon disulphide in official pharmacy, and suggestions for its further use.
12. The estimation of strychnine in the presence of brucine.

The PRACTICE SECTION SUB-COMMITTEE reported that Mr. Barlow presided at a meeting on June 30, when Mr. Peck stated that he had sent out 250 lists of questions and had received 131 replies — from private referees 47 and from local associations 84. He submitted the outline of his paper upon "Dispensing Abnormal Prescriptions," with a suggested code of rules, and the Committee cordially approved of its going forward as a basis for discussion at the forthcoming meeting of the Practice Section at Chester. This was adopted.

OFFICERS FOR 1914-15.—The Committee's report was accepted, and the Secretaries were instructed to ascertain if the gentlemen nominated are willing to accept office.

NEW MEMBERS.—The following forty-seven persons were elected:

A. S. Barr, Liverpool; C. W. Brumwell, London; G. H. Burroughs, Liverpool; F. Clarke, Tredegar; W. H. Clubb, Liverpool; C. W. Cooke, Hoylake; F. C. Cooling, Birkenhead; S. G. Cowell, Brisbane; J. P. Craine, Chester; J. Cumming, Crewe; J. W. Deakin, Northwich; D. Dickinson, Chester; D. H. Evans, Liverpool; R. W. Grimwade, London; S. Hardy, Liverpool; J. W. Hawley, Liverpool; J. Hope, Manchester; J. Hutcheon, Furness Vale; J. C. Jackson, Liverpool; C. Jones, Chester; G. J. Kelly, Bootle; G. Kennedy, Liverpool; J. Lancaster, Leeds; W. H. Litherland, Wigan; B. C. Lloyd, Bootle; C. A. Maries, Waterloo; A. H. Marsden, Liverpool; J. B. Martin, Helston; E. Millhouse, Gravesend; G. E. Paddock, Bootle; A. Pinnington, Bootle; W. G. Roberts, Liverpool; A. Royal, Bootle; W. G. Saunders, Liverpool; T. M. Simpson, Newcastle-on-Tyne; S. Smith, Dartford; T. H. Swinton, Bootle; W. J. Talintyre, Liscard; F. Walker, Long Sutton; J. A. Walker, Northcote, Australia; J. H. Weston, Runcorn; H. J. Whitehead, Bootle; J. Williamson, London; G. L. Wood, Cambridge; J. Wood, Seacombe; Mrs. L. Wood-Smith, London; H. Woulff, London.

POISONING FATALITIES.

TEN deaths due to the effects of poisons have been reported during the week, most of them being suicidal cases.

Carbolic Acid.—Alfred H. Mesnard, Camberwell, London, E.C., died from carbolic-acid poisoning.—Edward McGuinness, aged two, Forkhill, co. Armagh, Ireland, died from the effects of the same poison.—Sarah A. Dobson, Farnborough Grange, Hants, committed suicide by taking this poison.

Corrosive Sublimat.—Ruth A. Allen, Redditch, poisoned herself with this chemical while of unsound mind.

Prussic Acid.—Arthur W. Osborne, chemist's assistant, Lambeth, committed suicide by taking prussic acid at the works of the London Wholesale Chemists, by whom he was employed.

Salt of Lemon.—Henry J. Surman, Mount Pleasant, Redditch, committed suicide with this substance while temporarily insane.

Sheep-dip.—Samuel Ellens, Walsall, committed suicide while insane by taking sheep-dip, which probably contained arsenic.

Spirit of Salt.—Thomas Peak, Caledonian Road, London, N., poisoned himself while insane by drinking spirit of salt.

Strychnine.—William Alexander, Kinross, died as a result of taking strychnine.

Kind not Stated.—Alfred Surtees, Forest Hill, London, took his life "with premeditation" by taking poison.

COLLEGE NOTES.

THE SIXTH NUMBER of "The Square Chronicle," the official organ of the School of Pharmacy Past Students' Association, has appeared, and is certainly equal to its predecessors in brightness and vitality. The Editorial page has been written "within sight of the Yorkshire moors," and the holiday spirit is evident throughout. The pages devoted to "School Notes" keep past students in close touch with the School, and the "Honours List" cannot fail to be of interest to past and present students. Judging from the reports of its meetings, the Students' Association is evidently in a flourishing condition, and during the last three months papers have been read on "Wireless Telegraphy," "The Scottish Shale Industry," and "Sponges." The School Dinner, on February 20, is reported, and the deeds of "Square" footballers require more space than usual, two pages being devoted to "The Old Boys' Day." The humorous element, as usual, is in evidence, and the magazine concludes with a report of the second annual meeting of the School of Pharmacy Past Students' Association and the balance-sheet for the year 1913-14, from which we gather that the Association is in a satisfactory and flourishing condition. Mr. John C. Unney is the new President.

LIVERPOOL SCHOOL OF PHARMACY.—At the Royal Institution, Liverpool, on July 1, Mr. Harold Wyatt presided at a meeting of the students of this school and their friends for the purpose of doing honour to Mr. H. Humphreys Jones, Ph.C., F.C.S., the Principal, by presenting him with a roll-top desk. Dr. Symes, Messrs. D. H. Evans, John H. Robinson, W. H. Clubb, J. L. Hirst, William Wellings, and H. H. Marsden supported the Chairman. A telegram of congratulation was received from a number of students who are sitting for the Minor examination in London. Mr. Wyatt, in making the presentation, traced the history of the Liverpool School from its inception by the late Mr. J. S. Ward (who was succeeded by Mr. Cowley) until the present time. He spoke in glowing terms of the personal touch, ability, and enthusiastic interest of Mr. Jones in his efforts to coach the pharmacist of the future. Not only is Mr. Jones an enthusiastic and successful teacher; he is also one of the most hardworking and energetic Presidents that the Liverpool Chemists' Association had ever had. Dr. Symes supplemented these remarks, reminding the students that, although the examination bogie is one which all would be delighted to overcome, it is necessary. He also paid a high tribute to the manner in which Mr. Jones carries on his work, speaking in this regard as a member of the Education Committee of the Liverpool Chemists' Association. Mr. D. H. Evans, another member of the Education Committee, endorsed what Dr. Symes said. Mr. Jones had a hearty reception and spoke with great feeling. On the motion of Mr. Mould, seconded by Mr. Llewelyn Williams, two of the students, a vote of thanks with musical honours was given to the Chairman.

ENGLISH AND WELSH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

A frightened cow dashed into the front of Mr. R. Barker's pharmacy, Buckley, last week, breaking a pane of glass and damaging the door.

The City Executive Appeal Committee of the School of Oriental Studies, which has been established in Finsbury Circus, London, E.C., is appealing for subscriptions towards an endowment fund for the school. An endeavour is being made to raise 100,000/. The address of the committee is 1 and 2 Oxford Court, Cannon Street, E.C.

At the Livery dinner of the Spectacle-makers' Company, held at De Keyser's Royal Hotel, London, E.C., on July 1, reference was made to the continued success of the Company's opticians' certification scheme. Dr. Seymour Taylor spoke of the beneficent work which the Company is undertaking in this direction, and the Master (Sir Marcus Samuel) gave an instance in which a medical officer of health had written to the Company complimenting it on the scheme, which produces such able opticians for the public need.

The President and Council of the Royal Society have accepted the offer of Miss L. E. Lawrence and Miss M. W. Lawrence to present 4,000/. to the Society in trust to devote the interest arising therefrom to the furtherance of research into the cause and cure of disease in man and animals in such manner as the President and Council may from time to time determine. The donors desire to associate the gift with the memory of their father, Sir W. Lawrence, F.R.S., and their brother, Sir Trevor Lawrence, K.C.V.O., President of the Royal Horticultural Society and Treasurer of St. Bartholomew's Hospital.

Bradford.

Messrs. Rogerson & Sons have a window-display which contrasts strikingly with the mixed type usual in the city. There are two sections, one of which is dressed with tablets of coal-tar and eucalyptus soap wrapped in tinfoil, with a few of the dark-green tablets exposed. The artistic showcard in the centre does the rest.

As the result of a terrific thunderstorm which broke upon the city on July 1, the cellar of the premises of Messrs. Mackay & Son, pharmaceutical chemists, Forster Square, was nearly filled with water, and fears were entertained that the water would rise to the shop above. The staff was busy with buckets baling out the water until late into the night.

"Amami" preparations monopolise the window of Messrs. Thompson & Capper, in Darley Street, in connection with the gift scheme. The changes in the window since this firm took the pharmacy over from the late Mr. Waddington are striking. Previously a bust of Hahnemann, homeopathic medicine-cases, and homeopathic treatises were the only articles displayed.

Harrogate.

A Bradford firm has taken over the beautifully appointed pharmacy of Mr. Inman in Cambridge Crescent. The window-display here exemplifies elegance without confusion.

Rexall appear to be doing very little business in Harrogate. Boots are booming "Regesan" preparations, and silverware seems to be their main standby. "Amami" is having a good look-in, consequent upon the free-gift scheme.

The new front to the premises containing the pharmacy of Mr. O. R. Windemer is a great improvement. A crack was responsible for the old frontage being condemned. The window is fitted with beautifully polished mahogany inside and out, and this adds to the highly professional character of the display.

Shefield.

Some of the old pharmaceutical landmarks in the city are being removed as a result of the widening of a number of the streets. The most recent is in West Street,

which has been converted into a fine broad thoroughfare. Messrs. J. Clark & Co. (Mr. C. A. Gardner, chemist and druggist) have a fine large shop at the corner of Carver Street, which some little time ago replaced the old-established business at 74 West Street. It will be interesting to the younger members of the craft to know that it was from the old business of Mr. John Clark that Mr. John Humphrey went to the "Pharmaceutical Journal."

Contracts.

Settlement has been notified of the following contracts: Wandsworth Borough Council.—Price's, Ltd., for soap-tablets.

Romney Guardians.—Mr. F. Oran, for surgical dressings and drugs.

Loddon and Clavering Guardians.—Killgerm Co., for disinfectants.

Southampton Guardians.—Randall & Son, Ltd., for drugs and chemicals.

Guildford Borough Education Committee.—H. Long & Co., for drugs, etc., for school clinic.

Paddington Guardians.—M. P. Hunt & Co., for carbolic soap; G. T. Cox & Sons, for soft soap.

Metropolitan Asylums Board.—S. Maw, Son & Sons and Hovenden & Sons, for tooth-brushes and combs.

Chesterfield Guardians.—Dennis & Co., Bristol, for drugs (wholesale); Mr. Wright, Chesterfield, for drugs (retail).

Salford Town Council.—Baird & Tatlock, for apparatus and chemicals for new laboratory for public analyst at Regent Road Dispensary; Hardman & Holden, Ltd., for oxide of iron.

Twickenham District Council.—Mr. A. Feather, chemist and druggist, Twickenham, Jeyes' No. 1 disinfectant-fluid and Jeyes' corporation fluid; Mr. C. J. Palmer, chemist and druggist, Twickenham, for carbolic powder and soluble carbolic fluid (15 per cent. carbolic acid); Cail's Bitmo Co., Ltd., for Bitmo solution.

Chemical-works Fire.

The chemical-works of Messrs. Hopkin & Williams, Ltd., 16 Cross Street, Hatton Garden, London, were badly damaged by fire on the morning of June 27. The fire originated in a house near by, but in a comparatively short space of time the chemical-works were well alight, and, despite the efforts of the fire-brigade (the water having little effect on account of the nature of the stock), serious damage was done. We are asked to state that Messrs. Hopkin & Williams, Ltd., have at their Ilford works duplicates of nearly all the stocks, and the books and papers are all intact. They have made arrangements to carry on business without interruption, but ask the indulgence of their friends if slight delays occur in the execution of orders until their rearrangements are completed. [See the advertisement in this issue.]

Counter-prescribing.

Mr. John Andrews, Staines Road Drug-stores, Sunbury Common, was criticised at an inquest held at Sunbury on June 25, on the infant child of Mr. and Mrs. Sears, of Sunbury. Mrs. Sears said, in answer to the Coroner, that she took the child to Mr. Andrews' shop and asked him what he thought was the matter with it. He felt the baby's pulse, and said the temperature was 103°, and that the child was run down. He sold her a bottle of cod-liver oil emulsion for the child to take. Mr. Andrews, who said he had passed the first examination for a chemist but not the second, admitted this, and stated that he told Mrs. Sears to take the child to a doctor if it was not better the next day. He had been a dispenser for twenty-three years without the least trouble. He estimated the baby's temperature by holding its hand. The Coroner said it was ridiculous for a chemist to attempt to state the temperature by simply holding the child's hand. The chemist ought not to treat people as if he were a doctor. The Coroner added that he did not suggest that Mr. Andrews in any way caused the death of the child. Medical evidence was to the effect that the child died of purulent meningitis, and no treatment could have saved its life, and the jury returned a verdict of death accordingly, and did not think that, under the circumstances, Mr. Andrews should be censured.

RICHMOND, MARYLAND, handled 150,733,000 lb. of tobacco in 1913, and made 2,500,000,000 cigarettes; the latter is a fourth of the U.S.A. output.

IRISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Mr. Henry Boyers, Ph.C., Knox Street, Sligo, has been appointed a Justice of the Peace for county Sligo.

A fund has been started by the friends of the late Mr. John Refausse for the benefit of his widow and young child, who have been left unprovided for. Dr. J. C. Meyler, M.D., 11 Upper Leeson Street, Dublin, is acting as honorary treasurer of the fund.

Owing to the recent death of Mr. Samuel Bonnar, the surviving partner in the firm of Bonnar & Henderson, Ballymena, the drug-business is for sale as a going concern, together with the leasehold interest in the shop premises in Wellington Street, Ballymena.

Assistants' Scarcity.

The dearth of assistants in Dublin, qualified and unqualified, in causing a good deal of inconvenience to employers, many of whom are working short-handed for want of suitable assistants. The explanation assigned for the shortage is that many young men possessing the necessary educational qualifications are being tempted to try their fortunes abroad, or if remaining at home to try for positions in the Civil Service, which offer greater social advantages.

SCOTTISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

At Edinburgh Dean of Guild Court on June 25, a warrant was granted to Messrs. T. & H. Smith, Ltd., for extensions at Blandfield Chemical-works.

The Dundee post-office directory just issued has a new feature in that Broughty Ferry, instead of being entered as a separate section, is now treated as part of Dundee. The opportunity has been taken to include Lochee in the same way. The names of chemists and druggists number fifty-one, and these represent fifty-seven shops in Greater Dundee.

Aberdeen.

Mr. Robert Hunter, the Rexall chemist, has an excellent window display this week of Armour's Grape Juice.

There has been a brisk demand for salines and other summer necessities, as a result of the heat-wave which has passed over the city this week.

Messrs. Mitchell & Watt, C.A., 210 Union Street, Aberdeen, trustees of the trust estate of P. R. G. Laing, chemist, 90 High Street, Forres, intimate that the estate is about to be divided among the creditors.

The prospective developments in the chemistry and pharmacy department of the Aberdeen Technical College were brought before the Governors on June 26 in a memorandum by the Principal of the College (Mr. Chas. Stewart). It is anticipated that, under Dr. Maitland, the chemistry department will prove of great value to the College and to local industries. The memorandum states that the pharmacy classes continue to be ably conducted by Mr. Gilbert Simpson, the average enrolment for the day class being seven. It is anticipated that the total enrolment for these departments will exceed sixty next session.

Glasgow and the West.

Jane Forsyth Tennant intends to apply to Falkirk Town Council for an agri-horticultural poisons-licence.

The holiday season is now on, and city chemists report large sales of holiday requisites, bathing-caps, etc., being in great demand.

Mr. James L. Ewing, LL.D. Edinburgh, presented the prizes at Dumfries Academy on June 25. He is an "old boy" of this school.

Damage to the extent of 10,000l. was done by a fire on June 24 in the oil and colour works of Messrs. T. Hinshelwoode & Co., Glenpark Street, Glasgow.

The Governors of the Royal Infirmary have presented the materials of the "Lister" ward in the old infirmary to the University as a memorial to that famous surgeon.

Mr. James Beattie, chemist and druggist, until lately branch manager for Mr. Carmichael, Shawlands, has started business on his own account at Sanquhar, Dumfriesshire.

Mr. W. E. Taylor, 52 St. Enoch Square, Glasgow, has been appointed sole agent for Scotland for the Lingner formaldehyde disinfecting apparatus which is put on the market by the Odol Chemical Works, Southwark, London, S.E.

The new Royal Infirmary buildings, which are to be opened by the King, contain much that is of interest to pharmacists. This institution now ranks among the largest hospitals in the kingdom, the new building alone having a floor area of 500,000 square feet, and the equipment is second to none. When completed there will be accommodation for 700 patients, and with the staff necessary a total population of between 1,100 and 1,200 persons will be constantly housed in the building.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

IMPORTATION OF FOREIGN SERUMS.—M. Duputel, pharmacist, Creil, has applied to the Academy of Medicine for permission to import into France three of the Hoechst products, "Tuberculine B.E." (emulsion of tuberculous bacilli), "Anti-tuberculous sero-vaccine," and "Tuberculine A.F." (prepared without albumose). Professor Vallée, of the Alfort Veterinary College, nominated to report to the Academy on the subject, said the question was a delicate one. Evidently, if the Committee of Organic Serums wished to exclude from France all products of which the actual preparation could not be supervised by its representatives, the door should be shut on all foreign biological preparations. If it is admitted that the foreign Government guarantee sufficed, this product might be admitted, as the Hoechst "T.R." Tuberculine had been admitted in 1897. Thirdly, the Committee could, if it thought well, supervise the operations at M. Duputel's model laboratories. The idea of a French official presenting himself to make sure that a French pharmacist did not substitute a home-made article for a German importation appealed to the sense of humour of certain members, as M. Netter remarked. Finally, the Academy voted that the permission to import the A.F. and B.E. should be granted on condition that the diluted products should bear labels stating nature and dosage, and that M. Duputel should advise the authorities when he diluted, to facilitate supervision and marking of the said labels. The authorisation for the T.B.E. was postponed. M. Martin points out, in a French journal, that the Academy is more apt to pass foreign serums than foreign compound medicaments, but, he adds, "The manufacturers of compound medicaments often dispense with its permission."

Wholesale Druggists' Banquet.

The annual banquet of the French Wholesale Druggists' Association was held at the Palais d'Orsay Hotel on June 24, about two hundred being present. Some disappointment was felt when it was known that the Minister of Commerce was prevented from attending by urgent political business. The President and the most distinguished guests sat at a horseshoe table at the head of the hall. The dining was enlivened by the strains of the excellent band of the 102nd Infantry Regiment. I found myself next to a druggist whose report on the "Semaine Anglaise" recently appeared in the *C. & D.*, and an *entente cordiale* was soon established. When speech-time came round, M. Darrasse, Honorary President of the Wholesale Druggists' Association, spoke from the text that unity is strength, and made apt allusion to results recently obtained by the combined action of various trade associations—facts familiar to readers of the *C. & D.* "French News." He called on all to join the "Grande Armée" of French commerce, and drank to the union of chemical industries. M. Vinot, the next speaker, is the President of the Association of

Employés of Paris Drug-houses, representing the employed, and speaking to employers. He expressed the hope that the Government would do more for those who work for hire. His expressions were measured and manly, and he was listened to with attention. M. Franchomme, President of the Confectionery Association, apologised for intruding on a meeting of druggists. But his discourse was so neat and humorous that it met with loud applause, appealing, as it did, for a Parliament of Commerce, a reunion of trade associations to watch over the interests of French business. M. Poulenc, President of the Chemical Society, made some brief, but pertinent, observations; and then came what was, perhaps, from a practical point of view, the speech of the evening.

M. Schmidt, an ex-pharmacist, still comparatively young, represents the Vosges district in the Chamber of Deputies. Tall and soldier-like, with his cropped hair and military moustache, he has, like many of his fellow-Lorrains, a tone and manner, earnest and downright, which particularly appeal to a Britisher. He told how he had kept his word, and how the report on the new Pharmacy Act had been duly handed in. The text tallies almost word for word with that proposed by the Association. So much had been gained. The rest could not long be delayed. The law would, in all probability, come before the House very shortly; he hoped before the end of the present Session. The Budget must first be disposed of; but once that had been discussed, he expected the Act would very shortly follow. He would say no more. Deeds, not words, were what were wanted.

Senator Ménier, ever an honoured guest at these annual dinners, followed. He once more expressed his satisfaction at finding himself among the representatives of a trade with which his name and his father's had been so long associated, and added other remarks of a general character on French business in general and the sugar trade in particular.

M. Jean Morel, ex-Minister of State, is a little man with a white moustache; he is a capital speaker, and very amusing. He was a pharmacist, and is now a Senator. He referred to his youthful days at the old Paris School of Pharmacy, and alluded to the distinguished professors who still keep up the high traditions of that establishment in such pointed and flattering fashion that Professor Grimbert hid his blushes behind a large blush-rose (the tables were strewn with flowers), and Professor Perrot's smile became more enigmatical than ever. Professor Moureu listened with becoming modesty. M. Morel made mild fun of the Law of Germinal and was witty throughout.

The representative of the Minister of Commerce, having expressed the disappointment felt by that high dignitary at being prevented from attending, announced that sundry honorific distinctions had been granted. The names of a dozen or so of those present were called—beginning with M. Vinot—and they came forward to the horseshoe table to receive the cardboard rollers containing their authorisation to wear in their buttonholes, henceforward, the violet ribbon, emblematical of the modesty of the savant, or the medal for long and faithful service, and then returned to their places to become the centre of a group of congratulatory friends.

It was nearly midnight when we adjourned for coffee, and broke up once more into chatty groups. Altogether an interesting gathering.

CANADIAN NEWS.

(From the "C. & D." Correspondent.)

C.P.A.—The annual meeting of the Canadian Pharmaceutical Association will be held at Winnipeg from August 17 to 21. To encourage the presentation of papers the Executive has instituted a scheme by which three prizes, of \$50, \$25, and \$15 respectively, are awarded to the three best papers sent in. A separate competition is open to assistants; two prizes are offered—\$20 and \$10—and a list of five subjects is published, upon any of which the competitors may write.

BRITISH COLUMBIA.—The annual meeting of the British Columbia Pharmaceutical Association was held on June 11 in New Westminster, British Columbia, the rule being to hold it alternately in Vancouver, Victoria, and New Westminster. The President (Mr. J. H. Emery) was in the chair. The report of the Council showed that there had been ten convictions under the Pharmacy Act for

selling carbolic acid not labelled, employing unregistered apprentice in branch store, and unlawfully using title of druggist: three cases of selling opium without qualification, and three cases of carrying on business of a druggist without proper qualifications. The President in his address referred to the meeting held twenty-one years ago, when the annual meeting was held at New Westminster and under similar financial and trade depression. He also said that a revision and consolidation of the by-laws and some amendments to the Pharmacy Act are necessary and that a committee has been appointed to undertake the work. In regard to the education of the students he said that pending the opening of the British Columbia University a series of classes should be held. The proposition to inaugurate reciprocity of diplomas between the provinces and the proposed establishment of a Dominion Board of Pharmacy was declared inopportune, seeing that the educational requirements are unequal and the desire for such an innovation by no means unanimous. The general use of poison-bottles was advocated and the closer observance of the requirements of the Act in selling poisons. There are now 281 licentiates of pharmacy in British Columbia, as compared with 69 in 1893. Mr. John Cochrane and Mr. James W. Browne were elected delegates from the Provincial Association to the annual meeting of the Canadian Pharmaceutical Association to be held in Winnipeg on August 17. The election of three Councillors for the ensuing two years resulted as follows: Mr. T. H. Robinson, Vancouver; Mr. Joseph H. Emery (re-elected), Victoria; and Mr. Frank J. Mackenzie (re-elected), White Rock, British Columbia. At a subsequent Council-meeting the following officers were elected: *President*, Mr. Charles G. Mills, Vancouver; *Vice-President*, Mr. Geo. H. Cameron, Vancouver; *Secretary-Registrar-Treasurer*, Mr. James W. Browne, 500 Main Street, Vancouver, British Columbia (re-elected).

Our German Letter.

(Special Correspondence to the "C. & D.")

Memorial to Friedrich Mohr.—On June 21 the memorial of Friedrich Mohr, erected at Coblenz, was unveiled in the presence of his only surviving son, Dr. Bernhard Mohr, of London, and his wife, as well as other relatives and a large assembly of distinguished personalities. The Deutscher Apotheker Verein was represented by its President (Dr. Salzmann), and the Deutsche Pharmazeutische Gesellschaft by Professor Dr. Thoms, representatives of other pharmaceutical associations also attending. Dr. B. H. Paul, of London, who had interested British chemists in the memorial, was unable to be present. Professor Dr. Beckurts, Rector of the Technical School at Brunswick, gave a sketch of Mohr's life and career, and a detailed account of his scientific and pharmaceutical works.

Central Testing Bureau.—The often expressed demand that the German Government should create a central institute, to which all new remedies, synthetics, etc., should be submitted for investigation prior to being placed on the market, now appears to have engaged the serious attention of the Prussian Government. A circular has been directed by the Ministry to all the Prussian Presidents of the Provincial Councils, in which attention is drawn to the demand made for the creation of an institution to investigate all new remedies introduced, both as regards composition and action, as well as to check the uniformity of composition after the remedies are placed on the market. The Presidents are requested to inform the Government whether, in their experience, the necessity of such an institute has been felt in their district, and to make any suggestions on this subject which they desire. In the same circular these officials are requested to state whether there is any necessity for creating a central laboratory for analysing those remedies sold in pharmacies which cannot well be investigated during the time allowed for inspecting a pharmacy, especially with regard to their content of active substances. The creation of a central body empowered to pass judgment on all new preparations is regarded as a step backwards, and it is pointed out that it may seriously check the production of new remedies.

LEGAL REPORTS.

TRADE LAW.

Employers' Liability.—In the City of London Court Judge Atherley-Jones, K.C., concluded last week the hearing of proceedings under the Workmen's Compensation Act brought by a hairdresser's assistant (see *C. & D.*, June 20, p. 40). He awarded the plaintiff 1*l.* a week until further order, and costs.

A Chemist's Lamp.—At the Lambeth County Court, before Judge Parry, on June 26, Mr. George W. G. Robinson, chemist and druggist, 307 Raiton Road, Herne Hill, S.E., recovered 2*l.* 17*s.* 6*d.*, with costs, from the London General Omnibus Co., Ltd., for damages to the swing lamp outside his shop, which was broken through an accident caused by an omnibus belonging to the defendants colliding with it.

Not Wrongful Dismissal.—In the Shoreditch County Court on June 30, Mr. Registrar Wickham dismissed the claim of Charles Henry Lintonbom against Messrs. R. Hovenden & Sons, of 95 City Road, E.C., to recover 30*s.* as damages for wrongful dismissal, on the ground that the plaintiff had refused to do what he was bidden—viz. to carry a case of perfumery to Charing Cross and Oxford Street.

Medical Impersonation.—At the Hants Assizes on June 22, Hugh Munro McLeod Mackenzie (60) was found guilty of giving false certificates relating to the deaths of three persons, the offences having been committed in March and December 1912 and in April 1913. It transpired that the accused had impersonated a doctor of the same name (who resides in South Africa), and had been practising in Southampton as a panel doctor. Among the witnesses were Mr. Norman King, Registrar of the General Medical Council, and two sisters of the real Dr. Mackenzie. As the prisoner was very ill, Mr. Justice Kennedy stated that he would be kept in prison for a month, and that his name would be struck off the panel of doctors.

Carriage of Nitric Acid.—At the Bradford City Police Court, Mary Noble Reeves, chemical manufacturer, Spenn Valley Chemical-works, Cleckheaton, and Frank Paget, of Drub Lane, Gomersal, were summoned under the Railway Act, at the instance of the Lancashire and Yorkshire Railway Co., for giving a false statement as to goods upon the company's railway, and for failing to mark distinctly goods sent on the system. The goods referred to were fifty cases of nitric acid, the statement made being that they contained whiting. The Stipendiary Magistrate (Mr. Beaumont Morice, LL.B.) imposed a fine of 5*l.* and 25*s.* costs upon each defendant, and the forfeiture of the goods, with an alternative of seven days' imprisonment upon the first summons. The second summonses were withdrawn.

Travellers' Orders.—In the City of London Court on June 30, before Mr. Assistant Registrar Tattershall, several cases were heard in which Alex. Henley & Sons, Barbican Court, Barbican, E.C., made claims against various shopkeepers for balance of account for medicines, pills, salts, and powders supplied. After hearing evidence in the first case, the Assistant Registrar said it seemed to be a case of forcing goods on traders by leaving them on sale or return. He had heard of travellers before, and the one in question seemed to be a very clever chap. Plaintiffs eventually elected to take back their pills, and judgment was entered for the defendant, who was allowed costs. A similar course was followed in a second case. A third was adjourned for a week to allow the plaintiffs to produce a receipt which the defendant gave for the goods. The Assistant Registrar remarked that if the document was produced it might help the plaintiffs; if not, the case would be no different from the others. In a fourth case the Assistant Registrar said that, as the traveller was not in Court, nor the defendant (a widow since married again), he would nonsuit the plaintiffs.

Sale of Food and Drugs Acts.

WHITE-PEPPER APPEAL CASE.

(See verbatim report of the judgment, p. 66.)

SALICYLIC ACID IN BRITISH WINES.

Mr. Symmons concluded at Greenwich Police Court on June 26, the hearing of the evidence in the case against Charles William Sumpter, for selling raisin-wine containing 3.85 grains of salicylic acid to the pint (see *C. & D.*, June 20, p. 40). Mr. F. W. Beck, in opening the case for the defence, said that

similar cases in respect of lime-juice cordial had been dismissed in other courts. The prosecution had not shown that the article supplied was not of the quality, substance, and nature demanded. Dr. F. L. Teed, Mr. A. G. Salaman, and Dr. Frank Oldfield gave evidence for the defence to the effect that salicylic acid is necessary as a preservative in such wines. The Magistrate, in dismissing the summons, said the only question was whether the addition of 4 grains of salicylic acid to a pint of raisin-wine made the article objectionable in the sense that it was not what the purchaser asked for. While thinking that the purchaser should have the article labelled "British wine with a preservative," he was convinced that salicylic acid is not injurious in the sense of the Act, and he could not say an offence had been committed.

At Old Street Police Court, London, on July 1, Mr. Clarke Hall fined a retailer 7*l.* and 5*s.* costs for selling raisin-wine containing 10.5 grains of salicylic acid in the pint; and a fine of 40*s.*, with 23*s.* costs, was imposed on a second retailer who sold as non-alcoholic orange-wine "Stone's orange-wine" containing 10 per cent. of alcohol.

Medicine-stamp Act, 1812.

DUTIABLE SOCKS.

At the Mansion House, London, on June 29, John Morgan Davis & Co., chemists and druggists, 278 Bishopsgate, E.C., were summoned, at the instance of the Commissioners of Customs and Excise, for selling unstamped Dr. Nelson's Medicated Loofite Socks. Mr. P. S. Mellor (Solicitor's Department, Customs and Excise) appeared in support of the summons; Mr. C. H. Kirby was for the defence.

Mr. Mellor explained that the proceedings were taken under Section 2 of the Act, and contended that the article sold was a medicinal preparation, known in general terms as a proprietary medicine, that it was so registered under Royal letters patent, and that in the notices and printed matter sent out with it it was held out as a relief for rheumatic and unpleasant feet.

Mr. Kirby admitted the sale.

Mr. Charles Simmonds, B.Sc., F.C.S., analyst in the Government laboratories, deposed that the sock was composed of vegetable fibre, on one surface of which was a layer of boracic acid which afforded some evidence of having been impregnated with oil, possibly oil of pine. In his opinion, the wearing of this sock would have some effect.

Mr. Kirby contended that these socks did not come within the meaning of the Act at all. These articles were not to be applied internally or externally to the human body; they were to be worn next a stocking or sock, and their primary and chief object was to give comfort—"ease in walking." They were more in the nature of surgical than medical appliances. The words of the exemption clause in the Act should be construed in the light of the whole schedule, which contained a long list of articles that must be stamped, and the exemption following intimated that nothing of the same kind was to be sold unstamped. Electric belts were allowed to be unstamped, and he contended that the socks could not be construed as *ejusdem generis* with the articles mentioned in the schedule. As well say an umbrella sprinkled with a few drops of eucalyptus, and advertised, "Buy our umbrellas and avoid colds," must be stamped. He had heard that boracic acid was used in sausages, but he had not heard it suggested they must be stamped. Mr. Kirby, in support of his argument, quoted from Alpe's "Handy-book."

Mr. Alderman Hanson said he must give judgment against defendants. These socks were described as medicated, and he must hold that there had been an infringement of the Act. There would be a fine of 2*l.* 2*s.* and 3*l.* 3*s.* costs. In answer to Mr. Kirby, the Alderman said he would state a case if requested.

Pharmacy and Poisons Acts.

CHINESE OPIUM-SELLERS FINED.

Before Mr. Leycester, at the Thames Police Court on June 30, Twang Toi, a Chinese storekeeper, 12 Penny-

fields, Poplar, E., was summoned, at the instance of the Pharmaceutical Society of Great Britain, for having sold and kept open shop for the sale of opium, he not being a registered chemist. He was further charged with selling opium which was not distinctly labelled with the word "poison" and the name and address of the seller, and also for neglecting to enter the sale in the poisons book.

Mr. Quarrell, solicitor to the Society, having mentioned the terms of the summonses,

Mr. George Waldox proved the purchase of a 4-oz. tin of opium, for which he paid 18*s.* 6*d.* The tin was produced. A young man served him; the defendant at the time was lying on a bed smoking opium, and the one consulted the other before he was served.

Mr. Downie stated that defendant had been in England for nine years, and up till then no charge of any kind or description had been brought against him. Defendant's statement was that his servant sold the opium during his absence, and that he kept it for his own private use. Under the circumstances he asked that a small penalty should be imposed.

Mr. Leycester said that although the full penalty for the offence was 5*l.*, he would only impose one of 20*s.*, and 2*s.* costs.

Wang Kie Chang, 13 Limehouse Causeway, was charged with similar offences. Mr. R. A. Robinson appeared on his behalf.

Mr. Waldox stated that he called at 13 Limehouse Causeway on May 25, and there saw the defendant, who sold him the tin of opium produced, which was not labelled. Defendant took him upstairs, where he took the tin from about fifty or sixty others contained in a cupboard. He put down a sovereign and got a shilling change. The tin was submitted in court in the same condition as it was when it was handed to him. Witness was cross-examined by Mr. Robinson at some length, after which All Wang, who introduced Mr. Waldox to defendant, entered the witness-box, and stated that Waldox accosted him in the street and asked him if he had any opium. He replied that he had not. Thereupon Mr. Waldox took him to a public-house and treated him to two port wines. Waldox said he wanted the opium for medicine, and his answer was that he had a friend who used opium for himself. Witness then took him to the shop, where defendant told him he "could not sell opium to white man." Mr. Waldox said a little would do no harm, and that he only wanted a little for a friend. Defendant then went upstairs and Mr. Waldox followed him.

Defendant was the next witness, and, in the course of his evidence, Mr. Leycester remarked, "There is no use of wasting time in the defence by defendant telling lies," and finally said it was quite clear that defendant had intended selling to Chinamen but not to Europeans. In this case he had been less cautious. He had not, however, improved his case by telling lies. It was a bad case as it stood, but he had made it worse by telling lies.

Mr. Robinson said he took his instructions as they were given to him.

Mr. Leycester: Quite so. It is not for you to disbelieve your own client. I am not reflecting upon you, Mr. Robinson. The penalty will be five guineas, and two guineas costs.

Pharmacy Acts (Ireland).

A COMPANY CASE.

At the Petty Sessions in Lismore, co. Waterford, on June 27, evidence in connection with the cases of the Pharmaceutical Society of Ireland against Robert Lowe, Medical Hall, Lismore, co. Waterford, was heard by Mr. Orr, R.M., and other magistrates. Mr. J. F. Williams, solicitor, Dungarvan, represented the defendant, and Mr. Meeke, Dublin, the Society. One case was against the defendant and three against Lowe's (Lismore) Drug Hall, Ltd.

Mr. Meeke explained that the defendant Mr. Lowe is not a duly qualified chemist. An inspector for the Society visited the shop and purchased a packet of Cooper's sheep-dip, which contained 18 per cent. of arsenic.

P. K. Butler, the inspector, gave corroborative evidence, and in cross-examination admitted that another man was

in the shop at the time whom he afterwards ascertained to be W. H. Oneill Lyon. The prescription witness handed in was made up by Mr. Lowe. Mr. Lyon was present, and the prescription was compounded under his supervision. Witness stated he was from Cappoquin when asking for the sheep-dip. He pretended he was suffering from a toothache, and asked for "a drop" as a remedy. He asked for laudanum, which he also got. Mr. Lyon was standing by while he was getting the laudanum from Mr. Lowe.

Mr. Walter Thorp, F.I.C., F.C.S., deposed to analysing the sheep-dip and finding the equivalent of 13 per cent. of metallic arsenic in it.

Mr. Williams contended that the case could not be sustained. The shop in which Mr. Lowe was, belonged to a limited company, and Mr. Lyon, a duly qualified apothecary, supervised the transactions.

This statement was proved by evidence, and their Worships dismissed the summons on the merits.

The Magistrates then heard the case against the company, which was to the effect that on March 12 a packet of sheep-dip was sold contrary to the regulations contained in Section 2 of the Sale of Poisons (Ireland) Act, in so far as the packet did not bear the name and address of the seller, and no entry had been made in the poisons book; also for selling laudanum without labelling with the name and address of the seller; and for failing to send to the Registrar of the Pharmaceutical Society requested particulars as to the *bona-fide* proprietors of the said establishment.

Mr. Williams contended that the wrong defendants were prosecuted in the Section 2 case according to the decision in the Pharmaceutical Society *v.* Boyd.

Mr. Meeke replied that the decisions in the Lawler and Egan cases overruled that, and the Magistrates imposed a fine of 2s. 6d. and costs on each of the first and third summonses. In regard to the second summons Mr. A. T. Ferrall, the Registrar, deposed that on May 1 he posted a registered letter to Mr. Lowe as to the *bona-fide* owner of the establishment. He received no reply. Sergeant Bollard deposed that he had a conversation with Mr. Lowe as to why he did not answer the letter, and Mr. Lowe said that he was ill and had no time to reply. Further evidence was given, and a penalty of 10s. and costs was imposed.

Apothecaries Act.

MR. PURDUE CONVICTED.

At Bow County Court on June 29, before Judge Smyly, K.C., John Charles Purdue, herbalist, of 28 Roscoe Street, Canning Town, E., was summoned, at the instance of the 'Apothecaries' Society, for infringement of the Apothecaries Act by attending, advising, and supplying medicine to Rosina Thompson. Mr. R. O. B. Lane appeared for the Apothecaries' Society, and Mr. D. Ward for the defendant.

Mr. Lane, in the course of his opening speech, said that the question really at issue was whether or not the defendant had in fact acted or practised as an apothecary. He referred to the judicial decisions on the point, and explained what the Act of Henry VIII. enables herbalists to do. In this case, he continued, a Mrs. Thompson had a child aged two months. On Tuesday, January 27, the child was taken ill, and the mother took it to Mr. Purdue's shop or dispensary. She thought he was a doctor, because there was a plate outside the premises which described them as a "herbal dispensary." The defendant took the child's temperature, and examined it, and did what a doctor would do in the ordinary course. The defendant said the child had pneumonia, and gave the mother some oil and cotton-wool for outward application, and some medicine to take. He said his charge was 9d., but the mother had only 6d., which she gave him. She followed out the instructions given her, but the child got no better; and in the evening she called on the defendant and asked him to come and see the child. On more than one occasion she asked the defendant if she should call in another doctor, but he replied that if he could not do anything for the child, then nobody else could. He then visited the child, and

the mother paid him 1s. 6d., which he said was his charge. He saw the child three times, but she died on the Friday night, and he gave a certificate stating that the child had died from pneumonia and heart-failure. An inquest followed, with the result that the facts came to the knowledge of the Society. Before the inquest a *post-mortem* examination was held, and the doctor then found that the child had suffered, not from pneumonia, but from meningitis, and that the diagnosis of the defendant was absolutely wrong, and the only chance of recovery was an immediate operation. The usual notice was sent to the defendant, who replied that he was "only a penny herbalist."

Evidence in support of this statement was given by Mrs. Thompson, a woman who lives in the same house, and by Dr. Angus Kennedy, who made the *post-mortem* examination.

Defendant was then called and examined by Mr. Ward. He deposed that he thought the child was suffering from pneumonia, and he treated it with an oil, some lotion with which to cool the child's head, and some medicine for the stomach. All that the mother paid him was 2s., and he had given her 2s. 6d. in cash because he saw she was poor. He also gave the child a bottle of beef extract which cost 1s. 6d.

Witness was cross-examined and also questioned by his Honour, after which Mr. Ward addressed the Court for the defence, submitting that the defendant was covered by the Act of Henry VIII. Mr. Lane having replied,

His Honour said he did not think there was the smallest doubt in this case that the defendant had acted as an apothecary. Oil and medicine and cotton-wool had been given, and that he had acted gratuitously could hardly be imagined, seeing that he had taken money for the articles. Again, when he was called to the house in the afternoon he exercised his discretion by taking some medicine. He (his Honour) found as a fact that on the Tuesday afternoon the defendant took the 1s. 6d. of which the two women had spoken. On that occasion he acted as an apothecary, and took remuneration for his services, which were not gratuitous. As to the beef extract, that was brought on the Thursday, when affairs were rather dangerous, and it was not brought at the request of the mother. The mere fact that there was no profit on the transaction had nothing to do with the matter. He had no doubt that the 1s. 6d. and 6d. were taken, and it was intended that a profit should be made upon it. After all, a herbalist did not carry on a business for pleasure, but in the hope of making a living out of it. The Apothecaries Act was passed hundreds of years later than that of Henry VIII., and therefore overruled the former Act, and if people acted as apothecaries without certificates the latter Act made it illegal. For that reason he thought the plaintiff Society had proved their case, and there would be judgment for 20l. and costs.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

DR. SALTER'S COSTS.

On Wednesday, July 1, Mr. Neilson applied to a Divisional Court of the King's Bench Division, composed of Justices A. T. Lawrence, Atkin, and Lush, for an order granting costs to Dr. Alfred Salter, Bermondsey, in connection with his action to get the London Insurance Committee to restore his name to the panel of doctors.

Mr. Neilson said they had been informed that the Committee had no intention of further proceeding in the matter, and they would at once reinstate Dr. Salter's name on the panel. Under these circumstances he asked for costs.

Mr. Theobald Mathew, who appeared for the London Insurance Committee, said that Dr. Salter's name would be reinstated on the panel, and he was asked to say that the Committee were very glad to be able to reinstate his name. An important question of principle was raised, and it was thought desirable that there should be a decision on the point.

An order was made accordingly for costs for Dr. Salter.

BENDLE'S MEAT-PORT NUTRIENT.

On Monday, June 29, Mr. Justice Bray, in the King's Bench Division, resumed the hearing of the action for libel brought by Sutton, Bendle & Co., Sloane Street, S.W., proprietors of "Bendle's Meat-Port Nutrient," against the United Kingdom Alliance, and Mr. Bertram Fox, the Hull Secretary, in respect of a pamphlet issued at Hull by the Alliance, and bearing the title "Striking Statement by Hull, East Riding, and Lindsey Doctors," in which, plaintiffs complained, it was represented that their product was composed of wine and "meat extract," whereas in fact to the wine was added a nutritive substance called "Somatose." The case was reported in the *C. & D.*, June 20, p. 930, and June 27, p. 965. Sir Fredk. Low, K.C., and Mr. Lort-Williams were counsel for the plaintiffs; Mr. Gordon Hewart, K.C., Mr. McCardie, and Mr. Eastham appeared for the U.K. Alliance; and Mr. Owen represented the defendant Mr. Fox.

Evidence for the defence was continued, Colonel Chas. Cassal, F.I.C., F.C.S., Professor Sims Woodhead, M.D., Dr. F. L. Teed, F.I.C., F.C.S., Dr. K. Goadby, and Sir Victor Horsley, F.R.S., being examined. The evidence of the last-named was to the effect that the plaintiffs' product could not be rightly called a nutrient, having regard to the fact that the quantity of protein in the mixture was absurdly small and the quantity of alcohol large. Somatose, he said, is an ordinary proprietary remedy that had been tried in hospitals and found wanting, and the majority of London hospitals had (he found) given it up. Out of fifteen leading London hospitals ten did not use it at all. To call Somatose pre-digested meat was wholly incorrect. He thought it was an extract of meat—it was not a food. Plaintiffs' wine could not be called a meat-wine.

On Tuesday Sir Victor Horsley was cross-examined by Sir Frederiek Low, and was followed in the witness-box by Sir A. Pearce Gould, F.R.C.S.

Mr. E. F. Harrison, F.I.C., Ph.C., analyst to the British Medical Association, spoke to analysing a sample of Bendle's Meat Port (white capsule bottle) and other preparations said to contain meat extracts, and to sending reports thereupon to the "British Medical Journal." The article in the "British Medical Journal," March 27, 1909, was founded on these analyses, and he wrote the explanation in the pamphlet as to the way he calculated the total nitrogen. He meant, not to assert there was meat extract in plaintiffs' port present as a fact, but to represent the nitrogenous constituents of all wine in one common term. To the reader who was an expert it would be apparent that he used the term as a factor of calculation; to the ordinary reader the term would bear no stigma. Witness found a larger proportion of alcohol to nitrogenous constituents in plaintiffs' wine than in lager beer, Bass's, or Guinness's. The term "meat extract" had no precise or definite meaning. Experts preferred to class only Liebig's extract and similar preparations as meat extracts, but Somatose would not come within that restricted definition. In cross-examination witness stated that the book "Secret Remedies" was founded on his reports and admitted that two or three out of many proprietors had complained that the analyses were incorrect. Mr. Lort-Williams in this connection quoted THE CHEMIST AND DRUGGIST report of the inquiry, July 6, 1912, which dealt with the examination of Mr. Harrison by Mr. H. Lawson, M.P., Mr. Glyn-Jones, M.P., and other members of the Select Committee on Patent Medicines.

Dr. Lauriston Shaw, who said he investigated the use of Somatose at Guy's Hospital, described it as a meat extract, and regarded the pamphlet description of the wine as perfectly fair.

Sir James Barr, M.D. (Liverpool), declared among other things that plaintiffs' wine is not a genuine nutritive meat wine. Mr. Arnold R. Tankard, F.I.C., public analyst for Hull, said that the food value of Somatose is quite negligible.

On Wednesday, July 1, additional evidence was called for the defence, including Dr. Arthur Evans, M.S., Mr. William Thomson, F.I.C., public analyst for Stockport, Dr. James Mackenzie, Dr. Arthur Hawkyard (Leeds), Mr.

John Jas. Hatch, of Leeds, and Dr. J. Cantley (Hull). The defendant, Mr. Fox, also gave evidence as to the circulation of the pamphlet, and said he had authority by the Secretary of the Alliance to publish it. He had never seen any of Bendle's wine.

On Thursday further evidence was called, the witnesses being Dr. Percy Hall, of Hull, and Mr. Geo. Wilson, Secretary of the U.K. Alliance. Dr. Willcox and Mr. Parry were also recalled by Sir Frederick Low to rebut certain evidence of defendants. This concluded the evidence in the case, and it was adjourned for a fortnight, when Mr. Justice Bray returns from Assizes in the country.

LIMITED COMPANIES.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

KYROZITE SYNDICATE, LTD. (P.C.).—Capital 2,000l. R.O., 36 Basinghall Street, London, E.C.

MORGAN CRUCIBLE CO. (ITALY), LTD. (P.C.).—Capital 2,000l. The first directors are K. V. Morgan, L. A. Trapmann, and S. Beeton.

THOMSON WATSON CO., LTD. (P.C.).—Capital 1,000l. Objects: To carry on the business of chemists, druggists, etc. R.O., 133 St. Vincent Street, Glasgow.

KENT TRADING CO., LTD. (P.C.).—Capital, 1,000l. Objects: To carry on, *inter alia*, the business of dealers in dentists' and chemists' sundries, etc. R.O., 8 James Street, Ramsgate.

W. J. FREELAND'S SWIFTSURE, LTD. (P.C.).—Capital 1,500l. Objects: To take over the manufacture of a foot-rot cure. The first directors are W. J. Freeland and A. E. Simpson. R.O., Silverdale, Earlsbrook Road, Redhill.

G. FORTUNA (GOODGE STREET), LTD. (P.C.).—Capital 500l. Objects: To take over the business of a chemist and druggist carried on by A. J. Cottle at 48 Goodge Street, London, W.C. The first directors are A. J. Cottle and G. Fortuna.

AMES CHEMICAL CO., INCORPORATED.—Particulars filed June 17. Capital \$25,000, in \$100 shares. Registered in New York on October 20, 1913. British address: 8 Bouverie Street, E.C., where G. H. Jewett is authorised to accept service.

TOM WARD, LTD. (P.C.).—Capital 5,000l., in 1l. shares. Objects: To carry on the business of skin and hair specialists, chemists, druggists, etc., and to adopt an agreement with T. Ward. The first directors are T. Ward and Mrs. A. Ward. R.O., 16 Lapage Street, Bradford.

"CLOSED SYSTEM" CYANIDE RECOVERY SYNDICATE, LTD. (P.C.).—Capital 400l. Objects: To acquire from Hugh M. Leslie rights in invention for improved cyanide process in dissolving and separating gold and other metals, and for recovery of cyanogen. The first directors are H. M. Leslie, G. C. Wilson, C. A. Meiklejohn, and H. Affleck. R.O., 11 Matheson Street, Glasgow.

Charges or Mortgages.

Under the Companies (Consolidation) Act, 1908, Section 93, the mortgages or charges therein specified are (except in Scotland) void against the liquidator and any creditor of the company unless filed with the Registrar in accordance with the conditions laid down in the Act. Particulars of the following have been filed at Somerset House, London, W.C.

Chemicals, Ltd.—Debenture dated May 24, 1914, to secure 75l., charged on plant and machinery at 22A Hilda Road, Brixton, S.W. Holders: Quick & Co., Ltd., 29 Marylebone Road, W.

Lewis Wing, Ltd.—Mortgage on 6 Magdala Buildings, Regent Street, Weston-super-Mare, dated May 29, 1914, to secure all moneys due or to become due from the company to Lloyds Bank, Ltd., 71 Lombard Street, E.C., not exceeding 1,300l.

Matthews (Cash Chemists), Ltd.—Deposit of deeds of 14 The Broadway, Winchmore Hill, on May 26, 1914, to secure all moneys due or to become due from the company to London and Provincial Bank, Ltd., 7 Lothbury, E.C.

Standard Ammonia Co., Ltd.—Memoranda of satisfaction on October 1, 1913, (a) to the extent of 21,000l. of debentures created September 11, 1891, securing 30,000l., and (b) in full of debentures dated July 4, 1905, securing 1,500l., have been filed.

BIRTHS.

Authenticated notices are inserted without charge.

BENNETT.—At 124 High Street, Colchester, the wife of Ernest H. G. Bennett, chemist and druggist, of a son.

PURSE.—On June 30, the wife of Alfred H. M. Purse, chemist and druggist, Sunderland, of a daughter.

MARRIAGES.

Authenticated notices are inserted without charge.

CRAWFORD—SMITH.—At Tontine Hotel, Greenock, by the Rev. C. Ross Lowdon, M.A., on June 25, Andrew Crawford, chemist and druggist, to Mary, daughter of the late Mr. William Smith, Town Chamberlain, and of Mrs. Smith, 19 Ardgowan Street, Greenock.

KIRBY—PARKER.—At St. Mark's Church, Cheltenham, on June 23, John Kirby, chemist and druggist (Messrs. Hedges & Son, Birmingham), to Ethel, daughter of Mr. and Mrs. Parker, Pinehurst, St. Mark's, Cheltenham.

PEAKE—LLOYD.—At the Parish Church of St. Mary, Twickenham, by the Rev. Prebendary H. P. Prosser, M.A., on July 1, Walter Henry Peake, chemist and druggist, younger son of Mr. H. F. Peake, chemist, Twickenham, to Eleanor, daughter of Mr. H. Lloyd, Ph.C., Richmond, Surrey.

SUTTON—MEDHURST.—At St. Lawrence Church, Chobham (Surrey), on June 24, George Arthur Sutton to Mildred, youngest daughter of Mr. W. A. Medhurst, chemist and druggist, Hillside, Chobham.

WATSON—MORRISON.—At Carlton Hotel, Edinburgh, by the Rev. H. Ferguson, assisted by the Rev. J. E. Keir, M.A., on June 27, John Watson, Ph.C., South Queensferry, to Mary Stewart, eldest daughter of Mr. George S. Morrison, British Linen Bank, Broxburn.

DEATHS.

Authenticated notices are inserted without charge.

ANDERSON.—At 22 Lakeside Road, Palmer's Green, London, N., on June 28, Mr. George Anderson, London representative of THE

CHEMIST AND DRUGGIST, aged seventy. Mr. Anderson's death occurred with painful suddenness. He was in the City on Saturday and called at the office, as was his custom, early in the day, and later about half-past one. He was then in his usual health, which latterly was not too robust, an attack of bronchitis last winter having told upon him rather severely. He felt the excessive heat of Saturday and Sunday, and in the evening of the latter day he went out for a stroll. At ten o'clock, shortly after re-



MR. G. ANDERSON.

turning, he was seized with a fit of coughing, and in spite of immediate medical aid he died at eleven. Mr. Anderson was one of the oldest members of the staff of THE CHEMIST AND DRUGGIST, which he joined on December 1, 1881, having for a short time previously acted as a temporary canvasser. From the time that he joined the permanent staff his work grew in importance. He took an occasional journey in the provinces, and to Ireland and Scotland, but as the years went on, and particularly during the past twenty years, he confined his work to the Metropolitan district. His was one of the best-known figures among the drug-trade representatives in London. Tall, fair-haired, robust in figure, always jovial, yet never vulgar, he was received with respect and welcomed with

affection by many. He worked hard, for that characteristic was born in him. He came of a family of farmers in Ayrshire, and when a young man he had a farm training and became a farm bailiff near his home in New Cumnock. In the 'seventies he gave this up and came to England, first to Liverpool then to Manchester, having positions with a tea firm; then came to London to better himself in the same line of business, and chance brought him into contact with the subscription department of the C. & D., from which he graduated into a wider range of work and activity. He was most zealous in respect of the journal which he so faithfully represented for three-and-thirty years, and he was beloved by those inside 42 Cannon Street, whether young or old. All looked upon "G. A." as a friend. Mr. Anderson was very happily married, and had four sons and a daughter. Latterly he had lived at Palmer's Green, whither he had removed from St. Albans, and when in the course of the extension of the new northern suburb, Mr. W. S. Glyn-Jones, M.P., and a friend took steps for the establishment of a Presbyterian Church (St. George's) there, Mr. Anderson was one of the first to join the movement. He was a keen politician, being a typical Ayrshire Unionist, and a passionate devotee of Robert Burns, always ready with a quotation from the bard. The funeral took place on Thursday afternoon at Old Southgate Cemetery.

BLOORE.—At Skipton Street, Ballarat, Vict., on April 29, Mr. G. Grosvenor Bloore, aged eighty-two. Mr. Bloore was apprenticed to the drug-business at Birmingham, and emigrated to Australia in 1857, eventually settling down at Ballarat.

CROW.—At Broadwater, Worthing, on June 19, Mr. Edwin Lewis Crow, Ph.C., formerly of Lewisham, aged eighty.

HEPWORTH.—On June 15, Mr. Joseph Hepworth, manager of the Rawfolds Chemical-works, Cleckheaton, Yorks, aged sixty-seven. Mr. Hepworth was the father-in-law of Mr. P. Cadman, chemist and druggist, Sheringham, and was well known and respected in West Yorkshire.

ROBERTS.—On June 17, Mr. J. H. West Roberts, chemist and druggist, Liverpool, aged thirty-six.

ROBERTSON.—At Helensdale, Bathgate, on June 30, Mr. Robert Robertson, chemist, Malvern, Natal.

SAVEGE.—A cabled message was received on July 1 intimating the death of the Hon. Robert Maclure Savege, J.P., proprietor of Mac-lure's Pharmacy, Mount Road, Madras. He was a son of the late M. Savege, chemist and druggist, Montrose, was apprenticed to his father, and passed the Minor examination in 1890. Shortly after he went out to India, and was an assistant in Madras before starting business on his own account. He was a Commissioner of the Madras Corporation for many years, an honorary magistrate, and a member of the Legislative Council.



THE HON. R. M. SAVEGE.

RYAN.—At 63 Rathgar Road, Rathmines, on June 24, Mr. George Myles Ryan, Ph.C., proprietor of the Medical Hall, 12 Upper Camden Street, Dublin. The deceased was in the best of health up to two days before his death, when he contracted acute pneumonia, from which he died. Mr. Ryan was the son of the late Dr. John Ryan, of New Pallas, co. Limerick. He was educated at Dublin University, and went through the medical course at the Carmichael College in the same city. In his early years Mr. Ryan was connected with Hamilton, Long & Co., Ltd., and Adams & Anderson, both Dublin establishments. He qualified as a licentiate

of the Pharmaceutical Society in July 1890. The funeral took place on June 27 at Mount Jerome Cemetery.

WALKER.—At 5 Park Road, Southport, on June 23, Mr. Thos. Walker, chemical-manufacturer, aged seventy-six.

WELLS.—At Kyneton, Vic., on April 22, Mr. J. J. Wells, chemist, aged eighty-six. Mr. Wells was apprenticed to Mr. E. Harwood, chemist, Boston, Lincolnshire, and afterwards became manager for the executors. In 1854 he emigrated to Victoria and the next year opened a business at Kyneton, at first under primitive conditions, but afterwards, as the district developed, he built a pharmacy in Mallison Street. He retired from business in 1895.

WILLS PROVEN.

MR. EDWIN YEWDALE, Ph.C., Wade Lane, Leeds, who died on February 1, left estate valued at 2,181*l.* 3*s.* gross, with net personalty *nil*.

MR. RICHARD HARDY BLOOR, The Castle Pharmacy, Hawarden, chemist and druggist, who died on May 15, intestate, left estate valued at 442*l.* 18*s.* 9*d.* gross.

MR. WALTER WADE, 55 High Street, Sidcup, chemist and druggist, who died on May 20, left estate of the gross value of 964*l.* 18*s.* 11*d.*, of which 333*l.* 4*s.* 11*d.* is net personalty.

MR. EDWARD SANDERSON, Crowland, Lincs, for many years in business as a retail druggist, who died on February 16, left estate valued at 3,187*l.* 4*s.* 6*d.* gross, with net personalty 40*l.* 17*s.* 10*d.*

MR. ROBERT JOHN WATSON, Caistor, Lincs, chemist and druggist, who died on April 4, left estate valued at 4,756*l.* 2*s.* 5*d.* gross, with net personalty 2,686*l.* 11*s.* 5*d.*

MISS IDA FREUND, 7 Cranmer Road, Cambridge, late Staff Lecturer in Chemistry at Newnham College, who died on May 15, left estate of the gross value of 17,494*l.* 2*s.*, of which 17,237*l.* 15*s.* 1*d.* is net personalty. The money is left to various charitable objects.

BUSINESS CHANGES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

MR. J. RICHARDS has purchased the business of the late Mr. Andrew McDonald, 55 South Street, Isleworth.

BOOTS, LTD., have taken fresh premises in the Market Place, Dudley, for an extension of their business in that town.

MR. R. J. H. WEATHERILL, pharmacist, has purchased the business of Mr. James Hamerton, Ph.C., at 73 Springbank Road, Lewisham, London, S.E.

THE WIDOW OF MR. H. S. WINTER, of High Street, Manningtree (Essex), announces that the business will be continued under the management of Mr. C. B. Greville, pharmacist.

HARCOMBE CUFF, LTD., chemists and druggists, of 1 New Bridge, Dover, have acquired the specialities of the business belonging to Mr. J. F. Brown, Ph.C., of 1 Cannon Street, Dover.

MESSRS. GEO. CURLING, WYMAN & Co., 56 Bunhill Row, London, E.C., announce that Mr. Frederick Charles Oscar Shaw, elder son of their senior, has been admitted into partnership.

"SMART" is the appellation given by a business chemist to a sundries firm who fill orders promptly with "nothing to follow." Modern competition is levelling prices and making delivery a decisive factor in the destination of orders.

A SHEFFIELD NEWSPAPER, commenting upon the standard for fluid extract of digitalis fixed by the local Insurance Pharmacopoeia (1.5 minim the minimum lethal dose for a 100-gram frog), says: "Local frogs who contemplate a disagreeable form of suicide are asked to make a note of this." We are informed that many chemists are not spending their evenings in hunting for batrachian subjects for experiment.

WESTMINSTER WISDOM.

The Week in Parliament.

VOLUNTARY INSURANCE.

Sir Richard Cooper, M.P., will on Tuesday next introduce a Bill to repeal the National Insurance Acts, 1911 and 1913, and to establish a system of voluntary insurance against loss of wages through sickness and unemployment, and other purposes related thereto.

EXCESSIVE SICKNESS INQUIRY.

Mr. Wedgwood Benn, M.P., informed Mr. C. Bathurst, M.P., on Monday that the Departmental Committee on excessive sickness, in connection with the National Insurance Act, has finished taking evidence, and it is hoped that the report will be issued at an early date.

INSURANCE DRUG TARIFF.

Replying to Mr. Watt on Tuesday, Mr. Wedgwood Benn said that the Tariffs in force in England are the subject of local negotiations in the various areas, and have afforded no ground for a comparison of the circumstances of England as a whole with those of Scotland.

SOMERSET DRUG FUND.

A written reply to Mr. Aubrey Herbert by Mr. Wedgwood Benn states that the total amount due to the chemists on the panel in respect of 1913 is 4,945*l.* 2*s.* 4*d.*, which is the total amount of the drug account for the year. The final settlement of the accounts is in progress.

THE OPIUM TRAFFIC.

In the course of the debate on the salary of the Foreign Secretary in the House of Commons on Monday, Mr. T. C. Taylor, M.P., drew attention to the need for international regulation of the traffic in opium and other dangerous drugs, and asked what is the position of the International Opium Convention. Sir E. Grey replied that he understands that strong measures are being taken in most of the provinces of China to check the production and illicit consumption of opium in China. There remain seven provinces in respect of which the cessation of production has not yet been forthcoming.

THE SHOPS BILL.

The Bill to amend the Shops Act of 1912, which has just been introduced by Mr. Pointer, M.P., provides for an extended definition of the term "shop." It is to include any premises where any retail or wholesale business is carried on, and any premises, warehouses, and offices (other than factories, workshops, or laundries, or premises connected with mining or railway undertakings) where persons are employed for hire. The hours of employment, including meal-times, are not to exceed sixty per week. There is to be an interval of one hour for meal-time, and a notice to that effect is to be placed in the shop. The universal half-holiday is to commence at one o'clock instead of at half-past.

SHIPS' MEDICINE-CHESTS.

In the House of Commons on June 24, Major Archer-Shee asked the President of the Board of Trade whether, as regards the inspection of ships' medicine-chests by nautical surveyors at those ports where sanitary surveyors are not stationed, he will consider the desirability of appointing sanitary surveyors possessing the requisite qualifications for efficiently carrying out the duties of an inspection of this character, and also for systematic and efficient inspection of the accommodation provided for officers and men and all other matters appertaining to hygiene on board ship.—Mr. John Burns replied: As I informed the hon. member on March 25, the question as to whether, and if so in what respects, the Board's medical staff needs to be strengthened will be considered in connection with the investigation into the mortality of seamen which is now being held.

THE CELLULOSE INQUIRY.

Evidence has been given before the House of Commons Committee by Mr. J. Cruickshank Smith, B.Sc., F.C.S.

The Committee decided on Tuesday, after deliberating in private, that, assuming the clauses are agreed to by the Committee, there should be only one Bill for the Metropolitan area, and that it should be the London County Council Bill. The Committee accordingly upheld the objection to the proposed separate legislation for the City of London on the regulation of dangerous trades, but it assented to the principle of Clause 41 of the London County Council Bill on the assumption that that clause is agreed to. The clause provides that in the City of London the powers conferred on the London County Council shall, with the exception of those relating to celluloid, be administered by the City Corporation.

TRADE NOTES.

MESSRS. STAFFORD ALLEN & SONS will close their works at Cowper Street, Finsbury, London, E.C., on Saturday, July 4, for their annual outing.

"STAE-ON" EYEGLASS MOUNTS.—The illustration of the "Stae-on" eyeglass mounts in the advertisement in our last issue, of the Nitsche & Gunther Optical Co., Ltd., 66 Hatton Garden, London, E.C., was wrongly placed as regards position.

ODOL TOOTH-PICKS.—In the advertisement of the Odol Chemical-works (*C. & D.*, June 27), the price of Odol Tooth-picks in metal cases was quoted at 3s. per gross, instead of 3s. 6d., which is now the price, owing to the increased cost of production. The price is purely nominal, in so far as the Odol Chemical-works sell them to chemists at less than cost price, and chemists are able to retail them at at least a penny each. The Works supply a show-stand for the tooth-picks free with orders for two gross, and our readers can obtain them direct from the Odol Chemical-works, 59-63 Park Street, London, S.E.

SNOW HILL POINTERS.—One of the prettiest showcards which we have seen for some time is one which Messrs.

Burroughs Wellcome & Co. have produced as an advertisement for "Hazeline Snow." The showcard measures 20 by 15, and is in vivid yet artistic colours, which cannot be shown in the reproduction. The lettering is in red, while the hat of the young lady is a bright green, and the same colour is effectively employed to emphasise other features. It is a showcard which would grace a pharmacy of the highest type.—We have also received a sample of



Tabloid Xaxa Compound, which consists of pure acetyl-salicylic acid with phenacetin and caffeine. The combination is having quite a demand at the present time as an analgesic and antipyretic, particularly in rheumatism and colds. In cutting short a threatened cold the combination is effective. They are sent out in bottles of 25 and 100.

Poisoning Fatalities in 1912.

THE seventy-fifth annual report of the Registrar-General of Births, Deaths, and Marriages in England and Wales for the year 1912 has been issued this week. During 1912 the number of deaths registered was 486,939, corresponding to a rate of 13.3 per 1,000, which is the lowest on record. The deaths from poisons and poisonous vapours are given as follows: Accident or negligence 438, suicide 696, and murder 7—a total of 1,141. The deaths from anaesthetics in 1912 were 283, but these are not included in the table given in the next column. It will be noted that the accidental deaths from hydrochloric acid have considerably diminished, a striking testimony

to the advantage of compelling the retailer to label properly the vessels in which this poison is sold.

	Negligence and Accident		Suicide		Negligence and Accident		Suicide		Negligence and Accident		Suicide	
	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
Acetanilide ...	—	—	—	1	—	—	—	1	—	—	—	—
Acetic acid ...	2	1	—	—	—	2	—	4	—	—	—	—
Aconite ...	1	1	—	—	—	—	—	—	—	—	—	—
Alcohol ...	1	—	—	3	—	—	—	6	—	—	—	—
Ammonia ...	7	14	—	14	—	15	—	9	—	—	20	—
Ammonia and iodine tincture...	—	1	—	—	—	—	—	4	—	—	—	—
Ammon. tincture of guaiacum	—	—	—	—	—	—	—	1	—	—	—	—
Antimony ...	—	—	—	1	—	—	—	1	—	—	1	—
Aromatic vinegar ...	1	—	—	—	—	—	—	—	—	—	—	—
Arsenic ...	8	4	—	6	—	5	—	7	—	—	6	—
Atropine ...	—	—	—	—	—	2	—	—	—	—	1	—
Atropine and morphine ...	1	—	—	—	—	—	—	—	—	—	—	—
Belladonna ...	5	2	—	4	—	5	—	5	—	—	5	—
Belladonna and aconite...	—	—	—	1	—	1	—	—	—	—	—	—
Benzole ...	—	—	—	—	—	—	—	2	—	—	—	—
Brooklime ...	1	—	—	—	—	—	—	—	—	—	—	—
Camphor ...	1	—	—	—	—	2	—	1	—	—	1	—
Camphorated oil ...	3	1	—	2	—	—	—	2	—	—	—	—
Cantharides ...	—	—	—	1	—	—	—	—	—	—	—	—
Carbolic acid ...	13	62	—	10	—	89	—	17	—	—	88	—
Caustic potash ...	—	—	—	—	—	—	—	1	—	—	—	—
Caustic soda ...	2	—	—	3	—	1	—	—	—	—	1	—
Chloral ...	—	—	—	2	—	1	—	—	—	—	—	—
Chloral and opium ...	—	—	—	—	—	—	—	4	—	—	—	—
Chloride of barium ...	—	—	—	—	—	—	—	1	—	—	—	—
Chloride of lime ...	—	—	—	—	—	1	—	—	—	—	—	—
Chlorodyne...	2	1	—	4	—	2	—	5	—	—	—	—
Chloroform (not for operation)	1	1	—	1	—	1	—	1	—	—	2	—
Chloroform vapour ...	—	—	—	—	—	—	—	—	—	—	—	—
Chromic acid ...	—	1	—	—	—	1	—	—	—	—	—	—
Cocaine ...	2	—	—	—	—	—	—	2	—	—	1	—
Cocaine and aconite ...	—	—	—	—	—	1	—	—	—	—	—	—
Cocaine and morphine ...	—	1	—	—	—	—	—	—	—	—	—	—
Copper sulphate ...	—	—	—	—	—	1	—	—	—	—	—	—
Cresosote ...	2	—	—	—	—	—	—	—	—	—	—	—
Cresolene ...	—	—	—	—	—	—	—	—	—	—	—	—
Diachylon ...	2	—	—	—	—	—	—	—	—	—	—	—
Disinfectant ...	—	1	—	2	—	1	—	—	—	—	3	—
Fluoric acid ...	—	—	—	—	—	—	—	—	—	—	1	—
Hartshorn and oil ...	—	—	—	1	—	—	—	—	—	—	—	—
Hydrochloric acid...	13	97	—	25	—	73	—	8	—	—	86	—
Iodine ...	1	—	—	—	—	—	—	—	—	—	—	—
Jeyes' Fluid ...	—	—	—	—	—	—	—	2	—	—	1	—
Lead ...	4	1	—	—	—	—	—	—	—	—	—	—
Liniment ...	1	1	—	1	—	2	—	—	—	—	3	—
Lysol... ..	1	2	—	3	—	2	—	—	—	—	2	—
Mercury ...	2	2	—	1	—	1	—	—	—	—	—	—
Mercury bichloride ...	6	6	—	2	—	5	—	—	—	—	—	—
Mercury biniodide ...	—	1	—	—	—	—	—	1	—	—	—	—
Mercury chloride...	—	—	—	—	—	—	—	3	—	—	10	—
Methylated spirit ...	—	—	—	1	—	—	—	—	—	—	1	—
Narcotic (kind not stated)	7	1	—	6	—	1	—	2	—	—	—	—
Nicholl's pain cream ...	—	—	—	—	—	1	—	—	—	—	—	—
Nicotine ...	—	3	—	—	—	8	—	—	—	—	2	—
Nitre ...	—	—	—	2	—	—	—	—	—	—	—	—
Nitric acid ...	2	6	—	—	—	5	—	3	—	—	3	—
Oil of wintergreen ...	—	—	—	—	—	—	—	1	—	—	—	—
Opium, laudanum, & morphine	46	41	—	58	—	48	—	48	—	—	52	—
Oxalic acid ...	13	167	—	15	—	75	—	7	—	—	84	—
Paraffin ...	1	—	—	1	—	1	—	—	—	—	—	—
Paraldehyde ...	—	—	—	—	—	—	—	1	—	—	—	—
Paregoric ...	—	—	—	1	—	—	—	—	—	—	—	—
Pennyroyal... ..	—	—	—	1	—	—	—	1	—	—	—	—
Phosphorus...	1	3	—	2	—	8	—	5	—	—	9	—
Phosphorus matches	1	—	—	—	—	—	—	—	—	—	—	—
Picric acid ...	—	1	—	—	—	—	—	—	—	—	—	—
Poisonous berries...	2	—	—	—	—	—	—	3	—	—	—	—
Potassium bichromate	—	4	—	—	—	4	—	—	—	—	1	—
Potassium binoxalate ...	—	—	—	—	—	—	—	1	—	—	—	—
Potassium bromide ...	—	—	—	1	—	—	—	—	—	—	—	—
Potassium chlorate ...	1	—	—	—	—	—	—	—	—	—	—	—
Potassium cyanide ...	6	40	—	5	—	36	—	4	—	—	41	—
Potassium oxalate ...	—	—	—	—	—	2	—	—	—	—	2	—
Potassium oxide...	—	—	—	—	—	1	—	—	—	—	—	—
Potassium permanganate	1	—	—	2	—	1	—	—	—	—	—	—
Prussic acid...	3	34	—	3	—	24	—	1	—	—	35	—
Red precipitate ...	—	1	—	—	—	—	—	—	—	—	—	—
Silver nitrate ...	—	1	—	—	—	—	—	—	—	—	—	—
Sorrel... ..	1	—	—	1	—	—	—	—	—	—	—	—
Strychnine and nux vomica	9	11	—	5	—	13	—	4	—	—	11	—
Sugar of lead ...	—	—	—	—	—	—	—	—	—	—	—	—
Sulphonal ...	9	1	—	2	—	—	—	5	—	—	1	—
Sulphuric acid ...	—	4	—	3	—	5	—	6	—	—	1	—
Trional ...	—	—	—	—	—	—	—	3	—	—	—	—
Vermin-killer ...	—	3	—	—	—	2	—	—	—	—	1	—
Veronal ...	12	3	—	17	—	2	—	12	—	—	4	—
Weed-killer ...	—	3	—	1	—	1	—	—	—	—	2	—
White precipitate ...	—	—	—	—	—	1	—	—	—	—	—	—
Zinc chloride ...	—	1	—	1	—	—	—	1	—	—	—	—
Zinc sulphate ...	—	1	—	—	—	—	—	—	—	—	—	—
Kind not stated ...	26	64	—	28	—	60	—	144	—	—	138	—

OBSERVATIONS & REFLECTIONS.

By Xrayser II.

The Refusal of Medical Men

to join in the schemes for checking prescriptions and to contribute to the expense seems to be a short-sighted policy. As was pointed out at Bradford, it would be entirely in the interests of the doctors themselves were someone officially appointed on their behalf who could see how the medicine is being wasted. It is invidious to ask chemists to point out the doctors who are prescribing too expensively or who are repeating medicines too frequently, and I am quite sure that sooner or later doctors themselves will recognise this, and voluntarily take a hand in the work of checking.

"Repeat" Prescriptions

cause a good deal of trouble, but it has, in my opinion, been a good deal exaggerated, and the proposals put forward by the Denbighshire Pharmaceutical Committee, and subsequently adopted by a joint meeting of the doctors and pharmacists of the county, would reduce it to quite tolerable dimensions, so far as the original dispenser is concerned.

The Centre of Gravity

of things pharmaceutical in Scotland appears to be shifting. This, at least, is the deduction I draw from the curious lack of interest displayed in the recent election of the Executive of the North British Branch. At one time this was the most exciting function in the pharmaceutical year, and a large vote could be depended upon. To-day the proportion of those voting has fallen to less than 30 per cent. I fancy the apparent lack of interest is due to the circumstance that the human mind cannot be equally interested in two cognate subjects at one and the same time. At the present moment Insurance dominates the situation, and the "expulsive power of the new affection" has displaced interest in the old.

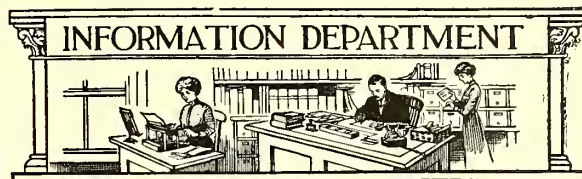
The New British Pharmacopœia

promised for October is causing less excitement, and will probably occasion less disturbance, than was the case with the first of its name, which appeared two years after my entrance into the trade, and was received with anything but enthusiasm. The changes it effected were in principle greater than any we anticipate from the new work. In the words of its Preface, it "superseded three Pharmacopœias [those of Edinburgh, London, and Dublin], each of them long held in great repute"; it altered, so far as Great Britain was concerned, the weights used in pharmacy, and it had, in consequence, a great body of prejudice to overcome. This prejudice was not, however, the main cause of the shortness of its reign; it was a tentative performance, with many shortcomings, and it lived unloved and died unregretted.

The Guild of Pharmacy

for which some of our young men in Edinburgh and elsewhere have been crying out is an impossible dream. Guilds have had their day, and cannot be revived. Even in their day they were not ideal institutions; for, though they may have made good craftsmen, they involved a kind of industrial slavery, and were (as Mr. G. B. Shaw says our "professions" are) conspiracies against the public. I recommend to the notice of the young men to whom I have referred an article in the "New Statesman" of June 6 on a proposal that has been made to revive the guild system in a form suited to modern conditions. This (says the writer) is "totally unachievable," and though outwardly attractive the revival is not to be desired. He gives several reasons for this opinion, the chief of which are the fact that the irresistible trend of the times is in quite a different direction—that of co-operation—and that the guild idea is economically unsound. Into the question of economics I will not enter, but it is safe to say, in spite of trusts

and trade unions, that no system which places the interests of producers first and those of consumers last will long survive in democratic communities. In the region of distributive trade, at any rate, we are moving strongly in the direction of co-operation; and the business of the chemist and druggist, so various, so constantly shifting in its boundaries, and with such over-lapping of other trades, is perhaps the least suited of any for an experiment in guild-making.



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Editorial Articles.

The Opium Convention.

THE third Conference of the representatives of the Powers called together to consider what can be done to control the production and distribution of raw, prepared, and medicinal opium, morphine, and cocaine, and their derivatives, was concluded at The Hague last week. We may recall the fact that the first Conference was held at the same place in December 1911, and continued into January 1912. Then the representatives of Germany, the United States, China, France, Great Britain and Ireland, Italy, Japan, The Netherlands, Persia, Portugal, Russia, and Siam agreed to pursue progressive suppression of the abuse of opium, morphine, cocaine, as well as drugs prepared or derived from these substances giving rise, or which may give rise, to analogous abuses. The full text of the Convention arrived at was printed in the *C. & D.*, February 3, 1912, p. 51. Not much general progress had been made with enforcement of the Convention. A second conference was held at The Hague in July 1913, when it was agreed that if by December 31 all the Powers had not adhered to the Convention, a third conference should be held. Its meetings have been fully reported in the *C. & D.*—June 20, p. 65, June 27, p. 24, and the present issue, p. 66. These reports, we may note by the way, are the fullest reports of the Conference which have been presented to the chemical and drug trades at home and abroad, and they once more demonstrate how essential THE CHEMIST AND DRUGGIST is to all business men, and why it is that this journal maintains its reputation. In view of the resolution arrived at by the Conference, and the action which the British Government has been and is still taking in regard to the whole subject, it is of the greatest importance to all concerned that a full report should have been made so promptly available through this journal. The Conference has now decided to call upon the Governments which have ratified the Convention to put its terms into force by internal legislation. The British Government has, through the Colonial Office, been quietly but firmly modifying the opium laws in various Colonies in accordance with the terms of the Opium Convention. The Foreign Office has also instituted preliminary inquiries, having addressed to various bodies (e.g., the

Pharmaceutical Societies and the British Medical Association) a letter asking opinion on the following points:

(a) Whether, in order to comply with the provisions of that Convention, it would be desirable and practicable to limit the sale to a private consumer of the substances mentioned in Article 14 (opium, its derivatives, and cocaine) to persons in receipt of a doctor's prescription.

(b) Whether, if so, it would be desirable and practicable to lay down that a doctor should state in his prescription the number of times for which it might be used, and that the compounder should, under penalty, be bound to comply with the limitation; and

(c) In the event of any such limitation being in the opinion of the Association possible and practicable, to be informed of its views as to the best method of enforcing it.

There is doubt in some quarters as to the practicability of the terms of the Opium Convention, but apparently our Government, like the American Government, is in earnest about the matter, and those interested, financially or otherwise, should see to it that anything that is proposed to be done should not impose disabilities upon British manufacturers and merchants unless they are simultaneously imposed upon their foreign competitors. We note that the British Medical Association has advised the Foreign Office that legislation should be introduced to provide: (1) That medical practitioners should state in their prescriptions the number of times for which these should be used; and (2) that the compounder should, under penalty, be bound to comply with the limitation. A committee of the Pharmaceutical Council has had the matter under consideration for two months, and has not yet reported. Any legislation on these lines may be in the nature of amendment of the Poisons and Pharmacy Acts, but there is nothing to prevent the Government legislating without the assistance of pharmaceutical and medical bodies, hence we give this note of warning now while the matter is really fresh.

Pharmaceutical Chemicals.

In subsequent pages we print an article by Mr. C. A. Hill, B.Sc., F.I.C., on "Pharmaceutical Chemical Standards," which consists chiefly of two tables in which are collated the results of the testing of pharmaceutical chemicals during the four years 1910-13. In the first and shorter table impurities other than lead and arsenic are dealt with—*e.g.*, ash yielded by samples of citric and tartaric acids, iron in copper sulphate, magnesium carbonate in magnesia, and potassium chloride in certain potash salts. In the second table, extending to fully four pages, the amounts of lead and arsenic found in sixty-seven chemicals are set forth, year by year, with the numbers of samples examined each year, and how they compared with the per million limits of each impurity. Mr. Hill has dealt with the subject before (*C. & D.*, 1908, I., 792-797), when upon his experience of commercially obtainable supplies he suggested standards for pharmaceutical and pharmacopœial purposes. Shortly afterwards Mr. Hill was invited to join the British Pharmacopœia Committee of Reference in Pharmacy, and reports which have since been issued by the Pharmacopœia Committee of the General Medical Council, and epitomised in the *C. & D.* as they appeared, have contained the suggestions for limitation of lead and arsenic in chemicals, precise methods for determining the impurities being included. In view of the early publication of the new British Pharmacopœia, it is interesting to note that Mr. Hill now finds it advisable to suggest alteration of a few of the standards set forth in 1908—*viz.*,

the tartaric-acid limit for arsenic to be two parts per million, instead of one part; ammonium carbonate, two parts of arsenic per million (no arsenic had been found in this chemical in 1908); ammonium chloride, limit of arsenic to be five parts per million, instead of two parts; dried iron sulphate to be similarly altered as regards arsenic; the lithium-citrate arsenical limit in 1908 was one part per million—no commercial sample with so little has been found since, and two parts per million is now suggested as the standard; so also the limit for potassium bicarbonate is lowered from one part to five parts per million for potassium citrate and sodium chloride from one to two parts, and of precipitated sulphur and sublimed sulphur from two to five parts. The analytical results set forth in Table II. justify these alterations, and in the case of several other chemicals—*e.g.*, boric acid and tartaric acid—it is apparent that lower standards for lead are necessary, since the limits suggested in 1908, though commercially obtainable, are only secured at a cost prohibitive in comparison with the advantage gained. We suggest a careful study of the tables; they deal with more samples of chemicals than we remember to have been reported upon at one time—*e.g.*, 1,524 samples of boric acid, 407 of tartaric acid, 691 of borax, 400 of Epsom salt, and 1,709 of Glauber's salt. The figures show how qualities have varied from year to year, and how consistent some chemicals are as to purity. The attention now given by manufacturers to matters of this kind is doubtless due in a larger measure to the demands of buyers, who are influenced either by pharmacopœial requirements or by other statutory desiderata, such as the Sale of Food and Drugs Acts. These should be regarded as academic influences, because they have sometimes taken as criteria standards which are unattainable (except at excessive cost) when working on the large scale, and we submit that it is not fair for a purchaser of an article for which he pays 2*d.* per oz. by retail to expect to get an article that manufacturers cannot produce at the figure. Cost is an element too often ignored on such matters, even by Pharmacopœias, which also should take into account, when considering the attainable in matters of purity, that it generally happens that the limits of chemical impurity are much below the point at which the presence of the impurity is determinable by physiological activity.

Exportation of Tinctures.

THE Commissioners of Customs and Excise have issued as a General Order revised sampling regulations as to the exportation of tinctures, whereby the extent of the checking of the strength and sampling of tinctures will from July 1 be based on the total proof quantity included in each day's packing, and not on the number of preparations in the notice to pack. Class A preparations ("tinctures" so-called) include medicinal spirits, flavouring essences, toilet vinegars and waters, hair-washes and brilliantries; of these one sample (5 fl. oz.) is to be taken from each packing not exceeding 5 proof gals., and a second sample of one preparation only when the quantity exceeds 50 proof gals. When two or more preparations are exported a sample of each preparation of 5 gals. or over is taken, and an additional one for over 50 gals., and one for each 10 gals. of the remaining preparation, with another if more than 50 gals. One variety of liniments is always to be sampled if included. Class B is perfumed spirits, including eau de Cologne, lavender-water, Florida water, and any lotion or other preparation

allowed by the Board in the class. Of these a 3 fl. oz. sample is to be taken on similar bases to the foregoing, except in the case of expensive perfumes, a hydrometer check also being provided. The Order further states that on and after July 1 perfumed spirits may be exported on drawback by the foreign and Colonial parcel-post from the premises of a licensed compounder, not less than an eighth of a bulk gallon being in each parcel. Bond has to be provided, and an officer has to attend the exporter's premises substantially as in the case of tinctures. A new form is provided for the purpose.

Fifty Years Ago.

THE Earl of Wemyss, who died on June 30, in his ninety-sixth year, when Lord Elcho and member for Haddingtonshire, spoke in the House of Commons on March 29, 1865, on the two Pharmacy Bills then before the House, and was one of the Select Committee appointed to consider the Bills. He never lost his interest in pharmaceutical legislation, and showed it by his alertness when the Act of 1908 was before the House of Lords.

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The book is also obtainable at the offices of *The Chemist and Druggist of Australasia*, Melbourne and Sydney; from the National Drug and Chemical Co., Ltd., Montreal and branches; and from Messrs. McKesson & Robbins, New York, at prices inclusive of the import duties.

Mr. Hannah's Appeal.

THE Lord Chancellor (Viscount Haldane), Lord Fletcher Moulton, and Lord Sumner, sitting as the Judicial Committee of the Privy Council at Downing Street, London, S.W., on July 2, had before them a further petition from Mr. Thomas Hannah, chemist and druggist, Amersfoort, Transvaal, in the matter previously reported (*C. & D.*, May 30, p. 43), as to his conviction for "practising or doing or performing acts specially belonging to the calling of a medical practitioner or chemist or dentist" without being registered. His petition on the present occasion set forth (1) that he had been convicted and vindictively sentenced without proof for criminal offences, and (2) that the courts had misinterpreted Section 39 of Transvaal Ordinance 29 of 1904. Mr. Hannah again appeared in person. Before he could utter a word the Lord Chancellor said: "Mr. Hannah, we have heard you already. What more have you to say for yourself?"

Appellant explained that he desired to state his case more fully than on the former occasion. "You have told us all you can tell us, and we cannot again hear a case that has been disposed of," was his Lordship's retort.

Mr. Hannah: "I have not had a fair trial, my Lords."

The Lord Chancellor: You said that before. What is your point now? I have no doubt the verdict of the jury in your case was rather roughly and quickly come to, but unless you have some new point we cannot hear you further to-day.

Mr. Hannah: My Lord, the result on the previous occasion proved that I had been too brief in my pleadings. Besides, I felt ill, and could not bring out all the points I desired.

Lord Fletcher Moulton: You did very well indeed, and we heard all your points.

The Lord Chancellor: You read your appeal. We looked at the construction of the Ordinance and ascertained certain facts. We did not make any remarks as to the question of the trial, and were satisfied with the justice of the case. We cannot hear you further unless you have different points to bring forward.

Mr. Hannah: This is a case of such vast importance that the whole of South Africa—

The Lord Chancellor: I have no doubt of the importance of the case, but we have decided the two points.

Mr. Hannah: I have spent five years of my life and sacrificed an immense amount on this case.

The Lord Chancellor: That may be, but we do not sit here in a merely judicial capacity. We sit here to interfere on behalf of the Sovereign in certain rare and well-defined cases. But your case does not come under that category.

Mr. Hannah: Surely where there has been gross injustice there are grounds for an appeal?

The Lord Chancellor: We have had all that before us, and found that there had been no gross injustice.

Lord Fletcher Moulton: You had the advantage of stating your own case, and on the very facts you stated we were of opinion that the law was against you. You could not want anything better than your own facts.

Lord Sumner: You admitted a criminal offence. Now when a man is guilty of a criminal offence and only says he is dissatisfied with the trial, we have no jurisdiction to interfere. Then you seem to have taken up the word fraud. We have tried to get hold of the word fraud with reference to the appeal, but have failed.

The Lord Chancellor: We know the facts, and have no jurisdiction, which you know. We cannot entertain your case.

Mr. Hannah then withdrew.

THE IMPORTATION INTO NORWAY of mirtiline and kephaldol was prohibited as from February 15, 1914.

PHARMACEUTICAL CHEMICAL STANDARDS.

By C. A. Hill, B.Sc., F.I.C.

ON May 23, 1908, there appeared in THE CHEMIST AND DRUGGIST a communication from the present author, entitled "The Purity of Pharmaceutical Chemicals," which had a two-fold purpose: first, to record a summary of the results of the examination of a number of commercial samples of the more important official pharmaceutical chemicals; secondly, to generalise from those results, suggesting standards of purity which should satisfy the conditions that are necessary in order that they should be generally acceptable as commercial (drug-trade) standards, and possibly as pharmacopoeial standards.

Since May 1908 many thousands of samples of official pharmaceutical chemicals have been examined in the light of the standard specifications referred to, and, while these specifications have in some cases been amplified, they have otherwise undergone very little amendment.

In view of the fact that definite standards of purity in respect of chemicals, very largely on the lines of the standards put forward for the first time in the communication above referred to, have been officially recommended by the Committee of Reference in Pharmacy to the General Medical Council* for inclusion in the next edition of the British Pharmacopœia; in view, too, of the fact that the publication of the new official volume is said to be not many months distant, it may be interesting and useful to record, in the briefest possible fashion, the chief results of the examination of samples of the said chemicals during the past four years.

Tabulation of the results has been resorted to from considerations of space and for purposes of easy comparison and reference. (See Table I. and Table II.) The mode of summarising the enormous mass of analytical data, so as to afford as much information as possible in the least possible space, will be clear from an inspection of the tables. In each one the chemicals are taken in the usual alphabetical order, each of the four years under review being considered separately.

In addition to giving for each year and for each impurity the number of samples examined, there is given, in respect of each impurity, the percentage of samples which have been found to conform to the specified limit, together with the *highest* and *lowest* amounts of the impurity found. The *average* amount found is not really informative, hence this has been omitted. Some other analytical results, and remarks which do not lend themselves to tabulation, are offered separately by way of comment and explanation.

Standard specifications of purity for pharmacopœial chemicals consist very largely of limits of impurities, and among the latter lead and arsenic, two most undesirable and commonly occurring impurities, play an important part. So numerous are the limits of lead and arsenic that it has been found necessary in the present communication to make a separate table for these.

The standards or limits adopted in the present communication are those appearing in the published recommendations of the Committee of Reference in Pharmacy to the General Medical Council, so far as these are available; failing these, the standards proposed in the communication to this journal of May 23, 1908, above referred to, and for the rest the standards adopted in the laboratory controlled by the author.

Where "the percentage of samples conforming" is given for more than one limit (*e.g.*, acidum boricum-lead), this is done in order to afford an opportunity to choose between two standards proposed by different

authorities. Thus both 10 and 20 parts per million have been put forward for the limit of lead in boric acid. The writer considers that the more stringent limit should be abandoned, on account of the difficulty of getting commercial boric acid to conform to it, while the higher amount—20 parts per million—would appear to be quite sufficiently stringent, having regard to the quantities in which boric acid is consumed.

The limit of lead in tartaric acid, citric acid, and cream of tartar is another case in point. While the tabulated results show that it has been possible to obtain sufficient supplies of these materials conforming to the more stringent limits, yet one is compelled to acknowledge the view that these lower limits are perhaps unnecessarily stringent as maximum limits, and to give ear to the considered statements of prominent manufacturers that removal of the last traces of lead, from tartaric acid especially, so as to conform to a standard more severe than the Local Government Board limit of 20 parts per million, is a matter of sufficient difficulty to affect the cost of production, and to an extent disproportionate to the benefit involved.

The routine testing of chemicals frequently serves to reveal what may be termed "accidental" or unlikely impurities. For instance, accidental admixture of magnesium sulphate in sodium sulphate would at once be shown by the appearance of a precipitate on the addition of ammonia in performing the lead test, while zinc would be detected on the addition of sulphide. Other instances are given under borax and boric acid.

ACIDUM ACETIC., ACIDUM CITRIC., AND ACIDUM TARTARIC. occasionally contain traces of copper, the amount present during the last four years in no case exceeding 5 parts per million, the majority being between 0 and 2 parts per million.—*Note:* A sample of tartaric acid in 1906 contained 28 parts of copper per million.

ACIDUM BORICUM.—The difficulties referred to below, in respect of borax, apply, though to a less extent, in the case of boric acid. The difficulty here, however, is lead, whereas with borax it is arsenic. Twenty parts of lead per million is, in the opinion of the author, a sufficiently stringent limit, and by no means all commercial samples will conform to it. A trace of bismuth was detected in boric acid on one occasion, being revealed during the carrying-out of the lead test by the brown colour obtained on the addition of sulphide being readily distinguishable from that given by lead.

BORAX.—The tabulated figures show, although somewhat inadequately, the difficulties experienced a few years ago by wholesale vendors of borax for pharmaceutical purposes. Up to the year 1910 the commercial variety so generally passed muster as to lead to its substitution for the pure variety. Difficulties experienced by the manufacturers in obtaining supplies of raw material—attributed, at all events in part, to the troubles in the Near East as affecting the supply of raw material from Asia Minor—led to the marketing of borax with a high arsenic content. The Birmingham prosecutions which took place at the end of the year 1911 have no doubt caused it to be more clearly recognised that commercial borax and pure borax are two distinct articles of commerce. For further details on this subject, see the *C. & D.*, July 5, 1913, correspondence, "Arsenic in Borax." In the year 1913 sodium carbonate was found in borax, the contents of five casks, forming one delivery, being found to contain from 0.7 per cent. to 4.5 per cent. of sodium carbonate ($\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$). This contamination, which must be attributed to accidental admixture, is of interest as illustrating the discovery of unlikely impurities by the routine testing of chemicals. The action of dilute mineral acid does not at all readily reveal the presence of sodium carbonate in borax, effervescence being masked by the copious precipitate of boric acid. The addition of citric acid, however, made during the carrying-out of the arsenic determination, for the purpose of keeping the boric acid

Title of Report	Date of Report
Report "up to October 29, 1908" ...	1908
Second Report, "from November 18, 1908, to December 16 1909, together with recommendations supplementary to those contained in the report of 1908" ...	1910
Third Report ...	May 1911
Supplementary Report—Limit Test for Arsenic	June 1912

in solution, at once revealed the presence of carbonate. The sodium carbonate was determined by titration of the total sodium with standard acid, using methyl orange, and subsequent titration of the boric acid by standard alkali in the presence of glycerin and phenolphthalein.

POTASSII CARBONAS.—The inclusion in the tables of the commercial variety—i.e., "salt of tartar"—is prompted by recent prosecutions for the sale of potassium carbonate containing arsenic. The figures show clearly the danger of substituting, for pharmaceutical purposes, the "commercial" for the "pure" article.

ZINCI OXIDUM.—The occurrence of particles of metallic zinc has necessitated the rejection of a number of samples.

Solution of commercial zinc oxide in ammonia (the present B.P. method) is very difficult to effect, but the presence of the metal is readily revealed when the oxide is treated with dilute hydrochloric acid. As the oxide dissolves a black scum rises to the surface of the liquid: this consists of lead (a constant impurity) thrown out in spongy form by the metallic zinc.

I desire to record my thanks to Mr. T. T. Cocking, who has carried out much of the analytical work herein utilised, for his valuable assistance in compiling the tables.

The Analytical Laboratory,
The British Drug Houses, Ltd.,
London, N.

TABLE I.

Chemical	Year	Number of Samples	Impurity	Highest %	Lowest %	Limit %	Percentage conforming
Acidum citricum	1910	60	Ash	0.08	0	0.05	97
	1911	68	"	0.07	0	—	98
	1912	54	"	0.03	0	—	100
	1913	75	"	0.8	0	—	76
Acidum tartaricum, <i>Ang.</i> ...	1910	63	Ash	0.2	0.01	0.1	97
	1911	99	"	0.26	0	0.05	71
	1912	66	"	0.11	0	0.1	99
	1913	68	"	0.09	0	0.05	84
Acidum tartaricum, <i>Exot.</i> ...	1910	34	Ash	0.25	0.07	0.1	56
	1911	12	"	0.38	0.03	0.05	15
	1912	29	"	0.34	0.08	0.1	50
	1913	36	"	0.32	0.05	0.05	8
Bismuthi carbonas	1910	61	Nitrate as $\text{BiONO}_3 \cdot \text{H}_2\text{O}$	2.25	0	2	98
	1911	62	"	6	0	—	97
	1912	55	"	2.1	0.5	—	98
	1913	69	"	3	0.3	—	93
Cupri sulphas	1910	17	Fe	0.2	0	0.1	93
	1911	13	"	0.1	0.016	—	100
	1912	8	"	0.2	0.002	—	75
	1913	12	"	0.12	0.035	—	83
Magnesia levis	1911	10	Loss on ignition	0.45	0.01	1	100
	1912	10	"	2.4	0	—	90
	1913	7	"	0.33	0	—	100
Magnesia ponderosa	1911	28	Loss on ignition	0.7	0.14	1	96
	1912	12	"	1.8	0.04	—	75
	1913	17	"	3.4	0	—	82
Magnesii carbonas levis ...	—	—	Sulphates as MgSO_4	0.3	0	—	—
Magnesii carbonas ponderosus ...	—	—	Sulphates as MgSO_4	2	0	—	—
Magnesii sulphas	1911	45	Chloride as MgCl_2	0.35	0.02	0.1	67
	1912	126	"	0.8	0	—	79
	1913	229	"	0.6	0	—	85
Potassii bicarbonas	1910	16	Chloride as KCl	0.11	0	0.1	94
	1911	19	"	0.04	0	—	100
	1912	19	"	0.04	0	—	100
	1913	28	"	0.01	0	—	100
Potassii bicarbonas	—	—	Normal carbonate as K_2CO_3	0.4	0	—	—
Potassii bromidum	1910	3	Chloride as KCl	0.4	0	1.56	100
	1911	10	"	1.2	0.2	—	100
	1912	4	"	1.7	0	—	75
	1913	4	"	0.9	0	—	100
Potassii carbonas	1910	14	Chloride as KCl	0.04	0.015	0.1	100
	1911	13	"	0.11	0	—	92
	1912	10	"	0.1	0.02	—	100
	1913	14	"	0.06	0.01	—	100

Chemical	Year	Number of Samples	Impurity	Highest %	Lowest %	Limit %	Percentage conforming
Potassii carbonas commercial ... "Salt of tartar"	1910 1911 1912 1913	5 1 6 5	Chloride as KCl " " "	1.2 0.7 1.8 2.6	0.5 — 1.3 1.7	0.1 — — —	0 0 0 0
Potassii chloras	1910 1911 1912 1913	53 101 140 75	Chloride as KCl " " "	0.17 0.2 0.13 0.11	0.01 0.02 0.01 0.01	0.1 — — —	93 96 86 99
Potassii iodidum	1910 1911 1912 1913	15 20 11 5	Chloride as KCl " " "	1.13 0.7 1.1 0.5	0 0 0.2 0	1.6 — — —	100 100 100 100
Sodii bicarbonas	1910 1911 1912 1913	17 20 19 13	Chloride as NaCl " " "	0.175 0.05 0.04 0.06	0.01 0.01 0.01 0.01	0.1 — — —	92 100 100 100
Sodii bicarbonas	—	—	Normal carbonate as Na ₂ CO ₃	0.29	0	—	—
Sodii bromidum	1910 1911 1913	1 2 1	Chloride as NaCl " "	0 1.25 0.43	— 0.95 —	— — —	— — —
Sodii carbonas	1910 1911 1912 1913	10 66 36 26	Chloride as NaCl " " "	0.13 0.07 0.05 0.03	0.07 0 0 0	0.05 — — —	0 93 100 100
Sodii carbonas exsiccatas ...	1910 1911 1912 1913	6 14 34 43	Chloride as NaCl " " "	0.6 0.8 0.8 0.5	0.2 0 0 0	0.1 — — —	0 50 79 67
Sodii phosphas	1911 1912 1913	80 91 41	} Sulphate as Na ₂ SO ₄ ·10H ₂ O {	1.5 1.5 2.6	0 0 0	1 — —	94 90 75
Sulphur præcipitatum	1910 1911 1912 1913	11 9 13 5		Ash " " "	0.35 0.29 0.16 0.19	0.21 0.05 0.09 0.11	100 100 100 100
Sulphur præcipitatum	1910 1911 1912 1913	11 9 13 5		Acidity as H ₂ SO ₄ " " "	0.07 0.08 0.07 0.015	0.01 0.007 0.01 0.005	100 100 100 100
Sulphur sublimatum	1910 1911 1912 1913	22 16 14 13	Ash " " "	0.14 0.22 0.45 0.17	0.01 0 0 0	0.1 0.1 0.1 0.1 0	59 0 75 6 71 7 70 8
Sulphur sublimatum	1910 1911 1912 1913	22 16 14 13	Acidity as H ₂ SO ₄ " " "	0.32 0.19 0.2 0.015	0.01 0.005 0.015 0.01	0.25 — — —	95 100 100 100
Zinci sulphas	1910 1911 1912 1913	50 44 42 51	Chloride as ZnCl ₂ " " "	0.29 0.15 1.4 0.43	0 0 0 0	0.05 — — —	66 88 72 76

TABLE II.

Chemical	Year	Number of Samples	Lead.—Parts per million				Arsenic.—Parts per million				Percentage conforming to both limits
			Highest	Lowest	Limit	Percentage conforming	Highest	Lowest	Limit	Percentage conforming	
Acidum boricum	1910	343	20	2	10	84	2.4	0	5	100	84
	1911	370	35	2	10	49	10	0	—	99	48
	1912	409	60	1	10	42	40	0.2	—	96	38
	1913	402	40	0	10	49	6	0.2	—	99	49
					20	93					93

Chemical	Year	Number of Samples	Lead.—Parts per million				Arsenic.—Parts per million				Percentage conforming to both limits
			Highest	Lowest	Limit	Percentage conforming	Highest	Lowest	Limit	Percentage conforming	
Acidum aceticum glaciale ...	1910	20	1.5	0	0	80	None	None	0	100	80
	1911	31	3	0	—	61	None	None	—	100	61
	1912	64	2	0	—	91	None	None	—	100	91
	1913	8	4	0	—	50	None	None	—	100	50
Acidum citricum ...	1910	60	16	0	5	81	1	0	1	100	81
	1911	68	20	1	5	88	0.4	0	—	100	88
	1912	54	15	0	5	78	0.4	0	—	100	78
	1913	75	8	0	5	96	1	0	—	100	96
Acidum hydrobromicum dilutum	1910	6	2	1	5	100	1.2	0.2	5	100	100
	1911	10	5	0.5	—	100	2.5	0.2	—	100	100
	1912	10	12	1	—	90	4	1	—	100	90
	1913	17	4	0	—	100	5	0	—	100	100
Acidum hydrochloricum ...	1910	2	3.5	1	10	100	0.6	0.2	5	100	100
	1911	10	5	1	—	100	0.5	0.2	—	100	100
	1912	16	2	1	—	100	1	0.1	—	100	100
	1913	14	4	0	—	100	0	0.8	—	100	100
Acidum lacticum ...	1910	4	1	0	10	100	0.8	0.2	5	100	100
	1911	6	0.5	0	—	100	0.4	0	—	100	100
	1912	5	1	0	—	100	0.8	0	—	100	100
	1913	3	12	1	—	66	0.4	0	—	100	66
Acidum nitricum ...	1910	5	3	0	20	100	1.2	0.8	5	100	100
	1911	11	0.5	0	—	100	0.2	0	—	100	100
	1912	8	2	0	—	100	0.6	0.2	—	100	100
	1913	10	6	1	—	100	0.4	0.2	—	100	100
Acidum phosphoricum 1.75 ...	1910	32	8	0	10*	100	2	0	5 ⁴	100	100
	1911	40	8	2	—	100	1.2	0	—	100	100
	1912	41	6	0	—	100	0.4	0	—	100	100
	1913	54	8	0	—	100	0.5	0	—	100	100
Acidum salicylicum ...	1911	3	2	1	5	100	0.6	0.2	2	100	100
	1912	4	2	0	—	100	0.8	0.2	—	100	100
	1913	5	2	0	—	100	0.6	0.2	—	100	100
Acidum sulphuricum ...	1910	1	5	—	20	100	1.2	—	5	100	100
	1911	6	60	14	—	33	1.2	0	—	100	33
	1912	6	50	14	—	81	1.5	0	—	100	81
	1913	9	16	2	—	100	1.2	0.1	—	100	100
Acidum sulphurosum ...	1911	6	—	—	10	100	0.2	0	5	100	100
	1913	6	—	—	10	100	0.2	0	5	100	100
Acidum tartaricum Anglicum ...	1910	63	24	1	10	62	1	0	2	100	62
	1911	99	22	0.5	10	87	0.4	0	—	100	87
	1912	66	50	0	10	88	0.5	0	—	100	88
	1913	68	12	0	10	94	0.5	0	—	100	94
Exoticum ...	1910	34	55	9	10	23	1	0	—	100	23
	1911	12	15	0.5	10	42	0.5	0.2	—	100	42
	1912	29	80	1	10	17	0.4	0.2	—	100	17
	1913	36	24	5	10	29	0.8	0	—	100	29
Ammonii benzoas ...	1910	9	10	0	10	100	1	0.5	2	100	100
	1911	2	2	0	—	100	1	0.5	—	100	100
	1912	3	15	2	—	67	1	0.5	—	100	67
	1913	3	4	2.5	—	100	1.6	0.4	—	100	100
Ammonii carbonas ...	1910	30	5	0	5	100	0.1	0	2	100	100
	1911	31	12	0	—	97	0.5	0	—	100	97
	1912	26	18	0	—	96	0.3	0	—	100	96
	1913	31	125	0	—	80	0.5	0	—	100	80
Ammonii chloridum ...	1910	66	8	0.5	5	98	0.5	0	5	100	98
	1911	69	5	0	—	100	0.2	0	—	100	100
	1912	16	3	1	—	100	0.8	0.1	—	100	100
	1913	14	3	0	—	100	0.4	0.1	—	100	100

* Refers to 1.500 acid.

Chemical	Year	Number of Samples	Lead.—Parts per million				Arsenic.—Parts per million				Percentage conforming to both limits
			Highest	Lowest	Limit	Percentage conforming	Highest	Lowest	Limit	Percentage conforming	
Bismuthi carbonas	1910	61	—	—	—	—	2.4	0	2	98	—
	1911	62	—	—	—	—	1.2	0	—	100	—
	1912	55	—	—	—	—	1.6	0.2	—	100	—
	1913	69	—	—	—	—	2	0.2	—	100	—
Bismuthi salicylas	1910	11	—	—	—	—	0.6	0	2	100	—
	1911	14	—	—	—	—	0.8	0	—	100	—
	1912	11	—	—	—	—	8	0.4	—	45	—
	1913	13	—	—	—	—	2	0.4	—	100	—
Bismuthi subnitras	1910	25	—	—	—	—	1.6	0.4	2	100	—
	1911	23	—	—	—	—	0.8	0	—	100	—
	1912	19	—	—	—	—	1	0	—	100	—
	1913	26	—	—	—	—	1.6	0	—	100	—
Borax	1910	154	4	0	5	100	60	0.4	5	97	97
	1911	177	4	0	—	100	25	2	—	78	78
	1912	191	60	0	—	95	40	0.4	—	71	66
	1913	170	8	0	—	97	100	0.6	—	69	66
Calcii carbonas præcipitatus ...	1912	23	35	2	10	56	2	0.4	5	100	56
	1913	27	20	2	—	78	1.2	0.2	—	100	78
Calcii hypophosphis	1912	4	8	1	10	100	4	1	5	100	100
	1913	16	6	2	—	100	4	0	—	100	100
Calcii lactas	1910	11	10	4	10	100	—	—	5	—	—
	1911	15	15	0	—	93	—	—	—	—	—
	1912	68	10	1	—	100	20	0	—	97	97
	1913	20	14	1	—	95	1	0	—	100	95
Calcii phosphas	1910	1	—	—	—	—	2	—	5	100	—
	1911	3	—	—	—	—	5	0.5	—	100	—
	1912	19	—	—	—	—	600	0.2	—	68	—
	1913	16	—	—	—	—	2.5	0.2	—	100	—
Ferri carbonas saccharatus ...	1912	9	—	—	—	—	7	2	5	78	—
	1913	2	—	—	—	—	3	0.4	—	100	—
Ferri sulphas	1910	2	—	—	—	—	0.4	—	2	100	—
	1911	9	—	—	—	—	2	0.4	—	100	—
	1912	13	—	—	—	—	2	0.3	—	100	—
	1913	6	—	—	—	—	1.2	0.4	—	100	—
Ferri sulphas exsiccatus ...	1910	3	—	—	—	—	2	0.4	5	100	—
	1911	11	—	—	—	—	1.6	0.2	—	100	—
	1912	5	—	—	—	—	1.8	0.4	—	100	—
	1913	6	—	—	—	—	0.4	2	—	100	—
Ferrum redactum	1910	7	—	—	—	—	150	20	200	100	—
	1911	12	—	—	—	—	200	16	—	100	—
	1912	5	—	—	—	—	220	50	—	60	—
	1913	2	—	—	—	—	200	160	—	100	—
Glycerinum	1910	100	0	—	0	100	2.5	0	4	100	100
	1911	94	0	—	—	100	4	0.2	—	100	100
	1912	108	0	—	—	100	4	0.2	—	100	100
	1913	100	0	—	—	100	2	0.1	—	100	100
Liquor ammonie fortis	1911	15	1.6	0	0	80	—	—	0.5	—	—
	1912	14	0.2	0	—	93	0.3	0.1	—	100	93
	1913	17	5	0	—	65	0.2	0	—	100	65
Liquor ferri perchloridi fortis ...	1910	12	—	—	—	—	10	4	10	100	—
	1911	13	—	—	—	—	8	0.5	—	100	—
	1912	21	—	—	—	—	10.6	1.2	—	95	—
	1913	34	—	—	—	—	5	0.4	—	100	—
Liquor magnesi bicarbonatis ...	1910	6	0.15	0	0.5	100	—	—	0.2	—	—
	1911	42	1	0	—	98	0.5	0	—	98	96
	1912	33	3	0	—	79	0.8	0	—	70	60
	1913	43	1	0	—	79	0.4	0	—	91	70
Lithii citras	1910	22	3	0	5	95	0.2	0.4	2	100	95
	1911	16	4	1	—	100	0	—	—	100	100
	1912	7	2	0	—	100	0.2	0	—	100	100
	1913	7	4	0	—	100	0.3	0	—	100	100
Magnesia levis	1910	16	20	5	20	100	2.8	1.2	5	100	100
	1911	10	10	2.5	—	100	3	0.8	—	100	100
	1912	10	25	0	—	96	3.2	1	—	100	96
	1913	5	10	4	—	100	3	1.6	—	100	100

Chemical	Year	Number of Samples	Lead.—Parts per million				Arsenic.—Parts per million				Percentage conforming to both limits
			Highest	Lowest	Limit	Percentage conforming	Highest	Lowest	Limit	Percentage conforming	
Magnesia ponderosa ...	1910	15	110	12	20	60	12	1	5	93	53
	1911	28	200	6	—	71	4.8	0.4	—	100	71
	1912	12	20	7	—	100	3	0.3	—	100	100
	1913	17	15	3	—	100	2	0.2	—	100	100
Magnesii carbonas levis ...	1910	21	10	1	20	100	2.4	0.8	5	100	100
	1911	22	6	1	—	100	2.4	0.8	—	100	100
	1912	25	50	1	—	96	3.2	0.6	—	100	96
	1913	18	16	0	—	100	2	0.4	—	100	100
Magnesii carbonas ponderosus ...	1910	29	42	1	20	86	3	0	5	100	86
	1911	17	32	3	—	94	1.2	0.4	—	100	94
	1912	61	20	3	—	100	1	0.2	—	100	100
	1913	103	70	2	—	93	9	0.1	—	99	93
Magnesii sulphas ...	1911	45	3	0	5	100	1.2	0.1	5	100	100
	1912	126	40	0	—	99	0.8	0.1	—	100	99
	1913	229	80	0	—	82	0.8	0.1	—	100	82
Potassii acetat ...	1910	1	2.5	—	10	100	0.2	—	5	100	100
	1911	2	2	1	—	100	0.4	0.3	—	100	100
	1912	2	3	3	—	100	0.4	0.2	—	100	100
	1913	7	4	2	—	100	0.8	0.1	—	100	100
Potassii bicarbonas ...	1910	16	2	0.5	5	100	0.8	0.2	5	100	100
	1911	19	4	0.5	—	100	0.4	0	—	100	100
	1912	19	2	0.5	—	100	1	0.1	—	100	100
	1913	26	11	1	—	96	0.8	0.1	—	100	96
Potassii bromidum ...	1910	3	1.5	0.5	10	100	0	—	5	100	100
	1911	10	5	0	—	100	0.4	0	—	100	100
	1912	4	3	2	—	100	0.8	0.2	—	100	100
	1913	4	1.5	0	—	100	0.8	0.1	—	100	100
Potassii carbonas ...	1910	14	1	0.5	5	100	0.4	0.2	2	100	100
	1911	13	2.5	0	—	100	0.6	0	—	100	100
	1912	10	1	0	—	100	1.6	0.4	—	100	100
	1913	14	2	0	—	100	0.6	0.2	—	100	100
Potassii carbonas commercial "Salt of tartar"	1910	5	3	2	5	100	7.5	6	2	0	0
	1911	1	2	—	—	100	10	—	—	0	0
	1912	6	2	1	—	100	20	6	—	0	0
	1913	5	2	0	—	100	350	100	—	0	0
Potassii chloras ...	1910	53	10	1	10	100	1.6	0	5	100	100
	1911	101	10	1	—	100	1	0	—	100	100
	1912	140	8	2	—	100	1.6	0.2	—	100	100
	1913	75	8	1	—	100	1	0.2	—	100	100
Potassii citras ...	1910	119	4	0	5	100	0.2	0	2	100	100
	1911	134	7	0.5	—	99	0.2	0	—	100	99
	1912	127	7	0	—	99	1	0	—	100	99
	1913	136	4	0	—	100	0.5	0	—	100	100
Potassii iodidum ...	1910	15	2.5	0	10	100	0.5	0	5	100	100
	1911	20	2	0	—	100	1	0	—	100	100
	1912	11	1	0	—	100	1	0.2	—	100	100
	1913	4	2	0	—	100	0.4	0.2	—	100	100
Potassii nitras ...	1910	10	2	0	10	100	0.6	0.2	5	100	100
	1911	6	0.5	0	—	100	1	0	—	100	100
	1912	16	3	0	—	100	0.8	0	—	100	100
	1913	16	1.5	0	—	100	1	0.2	—	100	100
Potassii sulphas ...	1912	1	80	—	20	0	0.1	—	5	100	0
	1913	3	55	30	—	0	0.4	0.1	—	100	0
Potassii tartras ...	1911	10	2	0.5	10	100	0.2	0	2	100	100
	1913	2	1.5	1	—	100	0.5	0	—	100	100
Potassii tartras acidus ...	1910	53	12	0.5	5	92	1	0	2	100	92
					20	100					100
	1911	50	24	0.5	5	94	2	0	—	100	94
					20	98					98
	1912	43	40	2	5	84	1	0	—	100	84
					20	98					98
	1913	50	30	1.5	5	72	1	0	—	100	72
					20	98					98
Soda tartarata ...	1910	34	9	1	10	100	1	0	2	100	100
	1911	43	12	1	—	97	3.5	0	—	97	97
	1912	34	4	1	—	100	1	0.1	—	100	100
	1913	32	3	1	—	100	0.8	0.1	—	100	100

Chemical	Year	Number of Samples	Lead.—Parts per million				Arsenic.—Parts per million				Percentage conforming to both limits
			Highest	Lowest	Limit	Percentage conforming	Highest	Lowest	Limit	Percentage conforming	
Sodii benzoas	1910	10	6	0	10	100	1	0	2	100	100
	1911	4	3	0	—	100	1	0	—	100	100
	1912	6	3	0.5	—	100	1	0	—	100	100
	1913	7	2	0	—	100	0.6	0.2	—	100	100
Sodii bicarbonas	1910	17	4	0	5	100	0.8	0	2	100	100
	1911	20	2	0	—	100	0.5	0	—	100	100
	1912	19	2	0	—	100	1	0	—	100	100
	1913	13	2	0	—	100	0.6	0	—	100	100
Sodii bromidum	1910	1	2.5	—	10	100	0.1	—	5	100	100
	1911	2	1	1	—	100	0.2	0	—	100	100
	1913	1	0	—	—	100	0.2	—	—	100	100
Sodii carbonas	1910	10	1	0	10	100	0.6	0	2	100	100
	1911	66	20	1	—	88	0.4	0	—	100	88
	1912	36	15	1	—	94	0.8	0.2	—	100	94
	1913	26	30	1	—	96	0.5	0.1	—	100	96
Sodii carbonas exsiccatus ...	1910	6	3	1	20	100	0.4	0	5	100	100
	1911	8	2	0	—	100	0.4	0	—	100	100
	1912	9	6	1	—	100	1	0.3	—	100	100
	1913	14	6	1	—	100	0.6	0	—	100	100
Sodii chloridum	1910	52	22	0	10	88	0.4	0.2	2	100	88
	1911	26	7	1	—	100	0.4	0	—	100	100
	1912	32	26	1	—	93	0.4	0	—	100	93
	1913	11	7	1	—	100	0.2	0	—	100	100
Sodii hypophosphis	1912	4	3	0	10	100	7.5	0	5	75	75
	1913	18	2	0	—	100	4	0	—	100	100
Sodii nitris	1911	4	40	8	—	—	0.4	—	5	100	—
	1912	3	10	0	—	—	0.2	—	—	100	—
Sodii phosphas	1910	75	3.5	0	5	100	1.6	0	5	100	100
	1911	80	8	0	—	99	0.6	0	—	100	99
	1912	91	2	0	—	100	5	0	—	100	100
	1913	41	2	0	—	100	0.5	0	—	100	100
Sodii sulphas	1910	271	26	0	5	94	0.6	0	2	100	94
	1911	414	18	0	—	97	0.5	0	—	100	97
	1912	479	15	0	—	97	0.6	0	—	100	97
	1913	545	8	0	—	99	20	0	—	93	92
Sodii salicylas	1911	7	3	1	5	100	0.4	0.2	2	100	100
	1912	10	2	0	—	100	2	0.2	—	100	100
	1913	24	7	0	—	96	1.6	0	—	100	96
Sodii sulphis	1910	7	8	2	10	100	0.6	0	5	100	100
	1911	7	12	1	—	71	0.4	0.2	—	100	71
	1912	10	9	2	—	100	1	0.3	—	100	100
	1913	11	12	1	—	91	1.6	0.2	—	100	91
Strontii bromidum	1911	11	4	0	10	100	0.6	0	5	100	100
	1912	9	8	1	—	100	0.6	0.2	—	100	100
	1913	13	6	2	—	100	0.6	0.2	—	100	100
Sulphur præcipitatum	1910	11	—	—	—	—	1	0	5	100	—
	1911	9	—	—	—	—	0.8	0.2	—	100	—
	1912	13	—	—	—	—	1.6	0.2	—	100	—
	1913	5	—	—	—	—	0.6	0.2	—	100	—
Sulphur sublimatum	1910	22	—	—	—	—	0.8	0.2	5	100	—
	1911	16	—	—	—	—	0.5	0	—	100	—
	1912	14	—	—	—	—	1	0.1	—	100	—
	1913	13	—	—	—	—	1	0.1	—	100	—
Zinci oxidum	1910	46	3.200	400	2.000	78	3	0.4	10	100	78
	1911	53	3.000	100	—	77	2.4	0.4	—	100	77
	1912	66	4.000	600	—	77	5	0.2	—	100	77
	1913	82	3.200	300	—	79	2	0.4	—	100	79
Zinci sulphas	1910	75	110	0	20	66	1.6	0.2	5	100	66
	1911	44	80	0	—	63	0.4	0.1	—	100	63
	1912	42	75	1	—	90	0.8	0.1	—	100	90
	1913	55	55	2	—	96	0.8	0.2	—	100	96

Insurance Act Dispensing.

A Weekly Record of events and decisions concerning Chemists' interests in Medical Benefit administration and practice.

Inquiry by the Commissioners.

A Committee of Inquiry, appointed by the Insurance Commissioners, sat at the offices of the Commission, Buckingham Gate, London, on July 1, to hear a representation by the Brighton Insurance Committee that the addition to the chemists' list of Sharp's Drug-stores, Ltd., 49 Edward Street, Brighton, would be prejudicial to the efficiency of the service. The Committee of Inquiry is constituted under Part VII. of the Medical Benefit Regulations, 1912; it does not sit in a judicial capacity, but reports relevant facts to the Commissioners, who afterwards announce their decision. On this occasion the Committee of Inquiry consisted of Mr. J. Fischer Williams, barrister; Mr. O. E. Warburg, a member of the London Insurance Committee; and Mr. Francis Bate, Chairman of the Berkshire Insurance Committee; with Mr. P. A. Koppell, clerk. Mr. Denman, the Clerk to the Brighton Committee, conducted the case for the complainants. The drug-stores was not represented, either by a solicitor or a member of the firm. Subjoined is the *C. & D.* representative's notes of the proceedings:

Mr. Denman outlined the rules laid down in the Insurance Act and Regulations to secure that only persons or firms complying with the conditions of the Poisons and Pharmacy Act, 1908, shall be permitted to dispense medicines to insured persons. He read a lengthy correspondence, in the course of which Mr. H. J. Sharp, the principal shareholder and managing director of the company, undertook that the dispensing should be done by a qualified chemist or under his direct supervision. The allegation was that the law in this respect had not been complied with. Following an inquiry by the Brighton Medical Service Sub-Committee in October 1913, the company asked to be removed from the list, but as a matter of fact it remained on because there appeared to be no regulation under which the company could be released from its agreement. The Committee took no action, but it did not insist on the agreement being fulfilled. The firm did not continue dispensing. On June 1, 1913, the Insurance Committee received a notice from the company stating that it was ceasing to trade as chemists on account of the scarcity of qualified chemists who could act as dispensers. However, on July 6 Mr. Sharp wrote as follows: "I am desirous of remaining on the panel, but not for scheduled poisons. . . I suggest you leave us on the panel, or place us on the panel for drugs and appliances."

The Chairman: Is it legally possible that a man should be on the panel for drugs and appliances, but not for scheduled poisons?

Mr. Denman thought it possible under the regulations. He added that Committees can enter into agreements with persons other than chemists for the supplying of medicines which do not require a registered chemist to dispense them. Continuing, he said that on September 30 the Insurance Committee received an intimation from the Registrar of the Pharmaceutical Society of Great Britain to the effect that since May 23, 1913, the company had not been a body corporate entitled to carry on business under the Act; that Mr. H. J. Sharp is not a registered chemist; and that contractual arrangements between the company and the Insurance Committee appeared no longer to exist. In giving an explanation before the Insurance Committee, Mr. Sharp stated that a registered pharmacist named Palmer was employed in the evenings during practically the whole of the time since May 23. When a prescription was brought in and required to be made up before the evening Palmer came to the shop to dispense, or he (Sharp) dispensed it himself on Palmer's telephoned permission. The Insurance Committee felt that these admissions made the present representations to the Commissioners imperative in the interests of the efficiency of the service. The Commissioners had advised, on being informed that the name of the company had been erased from the register, that it was not open to the Committee to renew the agreement. The name had accordingly been omitted from the latest list. The matter had been complicated, however, by a letter dated March 23, in which the company, over the signature "G. F. Lemmon, chemist and druggist," asked to be restored to the list. The Insurance Committee felt that, although the Registrar of the Pharmaceutical Society confirmed the claim that a qualified pharmacist was at the time of the applica-

tion associated with the business, it had no assurance that proper conditions would continue to prevail.

A clerk at the offices of the Insurance Commission gave evidence that the company was registered at Somerset House on October 23, 1912. The capital consisted of 5000*l.* in 1*l.* shares, the principal holder being Mr. Sharp. (*See C. & D.*, March 29, 1913, p. 40.)

Mr. Harry Moon, Deputy-Registrar to the Pharmaceutical Society, stated that a duly qualified chemist was registered as being employed as superintendent of the business to May 23, 1913; for a subsequent period the name of the company was erased from the register because this condition was not observed, and on March 4, 1914, the name was reinstated.

Mr. Warburg (one of the Committee of Inquiry) suggested that the Insurance Committee was hardly in a position to say that a properly qualified chemist would not always be available in future.

The Clerk to the Committee said it was hoped to show that the firm was not to be trusted.

Mr. A. F. Griffith, Chairman of the Brighton Medical Benefit Sub-Committee, said that Mr. Sharp acknowledged to the Sub-Committee the correctness of the record of his statements—already given by Mr. Denman. The Committee had been quite satisfied that as at present conducted the business would be untrustworthy.

The Chairman objected that the statement was not evidence.

Mr. Griffith said he could only prove it by bringing Palmer, and he had no power to subpoena a witness.

The Chairman: I am very sorry; nor have we. He added (after consultation) that the Inquiry Committee could not accept as evidence the conclusions reached by an Insurance Committee.

Mr. Griffith: Then I am afraid any representation of this sort must always be completely futile so long as an attempt is made to utilise a portion and not the whole of legal procedure.

The Chairman: The power to call witnesses can only be conferred by Parliament.

Mr. Griffith: The business has been left to the nominal superintendence of a man who is engaged in another business in another part of the town. Mr. Palmer is a tobacconist.

The Chairman: Surely these are statements readily susceptible of proof?

Mr. Griffith: We find it difficult to get definite proof.

The Committee at this stage adjourned for the luncheon interval, and the Chairman suggested that meanwhile the evidence might be put in a more definite form. However, on the resumption of the hearing, it was intimated that nothing material could be added on behalf of the Committee.

Mr. Griffith, in some general observations, urged that it would have a salutary effect if in such a case as this permission were refused to add the name of the company to the list until a definite time had elapsed. The chemists generally were giving good service in Brighton, but the few unsatisfactory pharmacists would receive a warning if this firm was penalised. In due course the company might regain its character.

The Chairman suggested that the Insurance Committee would be in the best position to keep itself informed of the firm's future behaviour if the name was restored to the list. In any case, the firm had not been dispensing since October last.

In reply to Mr. Warburg, Mr. Griffith said there had been no complaints in respect of the dispensing of the firm.

The inquiry then concluded, and the decision of the Commissioners will be issued in due course.

Territorialism and the Conference.

Territorial representation is one of the subjects which the conference of Local Associations agreed to delay full consideration of to the next conference (*i.e.*, the one to be held on Wednesday, July 15), and the following is an extract from the official report (*C. & D.*, January 24, p. 55) about the matter:

"Great interest was evinced in the paragraph setting up the Executive Committee of the Conference. It was decided that this should consist of seventeen persons: six to be appointed by the Pharmaceutical Council from its twenty-one members, seven to be elected by the delegates (one of the seven at least to be a representative from Wales), two members to be representatives of firms and corporate bodies on the panel, and the President and Secretary of the Pharmaceutical Society to be *ex-officio* members. The result of the consideration of various amendments directing the Executive Committee of the Conference to be elected on a territorial basis was that these were withdrawn upon the

Conference passing a resolution in favour of the principle of territorial representation, and recommending the Committee to prepare a scheme for submission at the next meeting."

The matter has recently been considered by the Executive Committee of the conference (which since January has become a Committee of the Pharmaceutical Council), and two out of five schemes submitted by request to the Committee will come before the meeting on the 15th. The more radical schemes by Mr. J. W. Cussons and Mr. Harry Kemp involved a rebalancing of the voting power, so that the elected members should not remain in a hopeless and permanent minority compared with the official party. These are not to be brought forward. One of the two which are to be is from the Nottingham Association, and is to the effect that the Executive is sufficiently numerous for practical purposes, and it proposes in order to ensure proportionate representation on the Executive Committee that the delegates representing County Borough Associations should elect five of the seven members of the Executive, and delegates from the County Association should elect two of the seven, or any other division of seven, always assuming that one delegate shall be from Wales. Mr. J. W. Deakin's scheme is one for redistribution of the seven members, and in it one is given to Wales and one to a north-eastern area (Durham, Northumberland, and Yorks), otherwise the representation is substantially as at present, the lines originally planned by the *C. & D.* being followed closely. It seems probable that the conference on July 15 will have little if any opportunity to discuss the matter, as discounting and the Drug Tariff will take most of the time. Nevertheless, whatever happens, the delegates will have an opportunity of judging for themselves whether or not the conference is of real benefit for giving effect to considered opinions from all parts of the country in so far as the method of procedure is such, and the frequency of consideration and criticism so rare, that shelving a crucial subject is not difficult.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Association Affairs.

ENGLAND.

Bolton.—The Insurance Committee was informed on June 25 that the Pharmaceutical Committee had appointed the following pharmacists—viz., Messrs. H. Knott, W. R. Blain, and J. R. Massey—as their representatives on the Pharmaceutical Service Sub-Committee.

Bournemouth.—As previously reported, the Drug Fund is getting short, and at the meeting of the Insurance Committee on June 22 it was decided to reduce the advances to panel chemists to 75 per cent. from the end of April, and to inform doctors of the state of the Fund, asking them to economise, also to mark prescriptions properly as to which fund should be debited. The Panel Committee has recommended, and the Insurance Committee has agreed, to disallow proprietary articles, etc., and that vaccines be given only on the certificate of two medical men.

Brighton.—The Insurance Committee met on June 25, when Councillor Black called attention to the fact that chemists had been paid only 94 per cent. of the amounts of their accounts, representing a deficiency of 225 $\frac{1}{2}$ l., and he asked the Committee to back up the chemists in their demand that they should be paid in full. Councillor Yates and Mr. W. H. Gibson also spoke, the latter saying that if they were not paid chemists would have reluctantly to come off the panel. Mr. Goodliff, replying as Chairman of the Medical Benefit Sub-Committee, did not see that they could go any further than they had already done, but promised that they would reconsider the matter.—Councillor Yates presided at a meeting of panel chemists at the Camera Club, Castle Square, on June 24, when the unexpected deficiency was discussed. Councillor Black explained that the deficit of 6 per cent. is due to a discrepancy between the local estimates and the amount allowed by the Insurance Commissioners. The Insurance Committee anticipated credit for 37,387 insured persons, whereas the Commissioners have calculated for 35,607, making a difference of 1,780. Apart from this, they were not in agreement as to the amount allowed per head. Minor adjustments for temporary visitors, etc., are expected to reduce the deficit to 5 per cent. Calculated in another way, it meant that the chemists had made up at least 10,000 prescriptions for which they would be paid nothing. After some discussion, it was resolved that the pharmacists who are members of the Insurance Committee be instructed to ask for details as to

the discrepancy, and actively to advocate the payment of chemists' accounts in full. Attention was called to the increased charges on the Drug Fund during the current year, and there was some discussion as to the best means of effecting economy in this respect. It was decided to recommend the Pharmaceutical Committee to confer with the Panel Committee, so as to bring about the abolition of "Rep. mist." An alternative suggestion of introducing a local Pharmacopœia did not find favour, and was outvoted. Councillor Yates was appointed delegate to the Associations Conference on July 15, and was asked to suggest that a national Tariff be drawn up in conjunction with the British Medical Association for use in all Insurance areas. It was decided to nominate the retiring members of the Pharmaceutical Committee—viz., Messrs. C. S. Ashton, H. Farmer, A. J. Franklin, J. R. Gwatkin, E. A. Jones, R. R. E. Perkins, J. Plowright, and C. G. Yates. Mr. W. H. Gibson was again selected for nomination by the Commissioners to represent the interests of pharmacists on the local Insurance Committee.

Burnley.—The Chairman of the Burnley Insurance Committee stated at the meeting on June 30 that panel chemists' accounts work out at 2s. 8d. per insured person.

Hull.—The Medical Benefit Sub-Committee considered a communication from the Pharmaceutical Committee re prices of preparations in the local Pharmacopœia, as the prices hitherto charged had been found to be inadequate (*C. & D.*, June 6, p. 52). It was resolved that no alteration in the Tariff be agreed to until the existing contracts terminate.—The Pharmaceutical Service Sub-Committee have elected Messrs. E. H. Earle and C. Smith as their representatives on the Joint Services Sub-Committee. This Sub-Committee also considered a complaint by an insured person against a firm of panel chemists in regard to an ointment, and found that it was not of the kind which should have been supplied, and that the assistant who dispensed the prescription had left the firm's employment consequent on the incident. It was agreed to inform the firm that the dismissal of the assistant because of the error did not altogether satisfy the Committee, seeing that dispensing should be under the supervision of the manager, who should be severely reprimanded for his carelessness, and the Committee request that steps should be taken to exercise greater care and a more rigid supervision, so as to prevent any repetition of such errors; and, further, that the firm be held responsible for the sum of 5s., being remuneration to the insured person for loss of time in attending the inquiry.

Isle of Wight.—At a meeting of the Insurance Committee on June 27 it was reported that panel chemists' accounts for the past quarter amounted to 618 $\frac{1}{2}$ l. 11s. 4d., an increase of 66 per cent. on the corresponding quarter of 1913. This was attributed to excessive sickness. The Commissioners have credited 9,355 $\frac{1}{2}$ l. 11s. to the Medical Benefit Fund in respect of 22,000 insured persons, instead of the local average of 23,726.

Kent.—The Insurance Committee was informed on June 25 that the Drug Fund had more than a sufficient balance to pay the drug accounts in full.

London.—A meeting of the County Pharmaceutical Committee was held on June 16, Mr. J. Keall presiding. Correspondence relating to an official Pharmacopœia for London, signature of deputy, and the Panel Committee's resolution re dispensing hours was dealt with. The Committee agreed, with respect to the latter, that in each area so far as practicable panel chemists should supply insured persons at all reasonable times, and that the hours of business should appear on the panel list, an asterisk being placed against any place of business at which urgent prescriptions cannot be dispensed at times other than those indicated, and that prescriptions bearing the letter "U" should be dispensed without extra fee at times other than those indicated in the list. It was agreed to suggest to the Panel Committee that panel doctors be informed that a deputy should order drugs in the name of the practitioner for whom he is acting, and add thereto his own initials. The report of the General Purposes Sub-Committee was received, incorporating the report of the conference of Panel and Pharmaceutical Committees on the questions of the use of "Rep. mist." and an official Pharmacopœia. It was accepted for the present that the use of "Rep. mist." is undesirable, and its total abolition was strongly advocated by the pharmacists present at the conference, but it is to be brought up again. The adoption of a Pharmacopœia and rulings concerning proprietary articles were agreed to. It was resolved to recommend for insertion in the next Drug Tariff that grey open-weave bandages should be supplied unless otherwise indicated. The suggested hospital card system for insured persons was considered to be impracticable. It was further resolved that all doctors should write prescriptions for emergency medicines supplied by them and send

them to the Insurance Committee as vouchers, the Secretary to inform the Insurance Committee about this.

Oldham.—The Drug Fund last year amounted to 6,172*l.* 12*s.* 6*d.* For the five months January to May of this year 3,500*l.* has been paid, leaving a balance of about 2,500*l.* The Insurance Committee paid chemists 12 per cent. less than the amount of their accounts last year, and unless there is less sickness the shortage will be greater than last year.

Oxford.—At the meeting of the Insurance Committee on June 26, it was stated that chemists had ended the year with a credit balance in their fund of 20*l.* On the doctors' lists this should have been 70*l.*, and on the basis of the index count 125*l.*, and had this been received the chemists could have been paid in full last quarter, instead of only 80 per cent., and there would still have been a credit balance of 25*l.* in their account. It appeared that the Commissioners were only crediting the Committee on a basis of 15,500*l.*, whereas the doctors' lists for 1913 showed 16,204*l.*, and the index register for the same period 17,024*l.*

Plymouth.—The cost of drugs dispensed in Plymouth under the prescriptions of panel doctors works out at 2*s.* 8*d.* per head, and there is in consequence a deficiency of nearly 2,000*l.* on the Drug Fund (*C. & D.*, March 28, p. 71; April 4, p. 54; and May 9, p. 60).

Salford.—The Insurance Committee met on June 25, when it was reported that the Commissioners had declined to accede to the request of the Committee to hold an inquiry as to alleged over-prescribing in this area. They pointed out that the action to be taken under Article 46 of the Medical Benefit Regulations, 1912, is for the decision of the Committee, and "it would not appear that the Commissioners are in any way empowered to adjudicate or hold any inquiry into the matter. They would, however, be prepared to arrange for a conference at the Committee's offices, if the latter so desired, with representatives of the Committee, doctors, and chemists, at which points at issue might be fully discussed." The Chairman said that the difficulty was with regard to last year's accounts, and he did not think they would have any trouble this year. Dr. Gerrard thought the dispute was between the chemists and the Commissioners. The chemists' hands were forced by the Commissioners, who were not prepared to accept any responsibility in the matter. The results of May and June would show that there would be more than enough money to pay the accounts in full. Mr. Gill, the chemists' representative, said chemists had no grievance against the doctors; all they wanted was payment for work done and goods supplied. If the Panel and Pharmaceutical Committees could be brought together the thing might be put right. In the course of the discussion it was stated that between 17,000 and 18,000 persons had been attended out of about 85,000 insured persons, which is a larger number than in any other area in Lancashire. Ultimately it was resolved that it be left to the Panel and Pharmaceutical Committees to see if they can come to a settlement of the matter. The Clerk reported that during April 33,549 prescriptions were dispensed by the chemists, the average cost being 5.05*d.* The total amount was 705*l.*, and a large proportion of this has been paid.

Sheffield.—The County Borough Insurance Committee met on July 1. The Medical Benefit Sub-Committee submitted a Pharmacopoeia prepared by the Panel Committee after conference with the Pharmaceutical Committee, which was approved. The Clerk submitted a number of prescriptions by panel practitioners and dispensed by chemists, and which, when checked, appeared to constitute an excessive demand on the Drug Fund. It was agreed to request the Panel Committee to investigate these cases. The fifth payment for 1914 (75 per cent.) to panel chemists amounted to 1,361*l.* 1*s.* 6*d.* The first payment (also 75 per cent.) for emergency supplies for panel practitioners amounted to 61*l.* 2*s.* 9*d.* At a meeting of the Sub-Services Committee Alderman Marsh was appointed to act as Chairman, with Councillor Oliver Wilson as Vice-Chairman.—At the meeting of panel chemists held last week, very strong dissatisfaction was shown at the ordering of local pharmacopoeial medicines by number. Examples were given showing the extreme danger of serious errors arising through this, more so as a section of the medical men are still using the old formulary. One example given was R No. 1, which in the new Panel Formulary is *guttæ atropinæ*, whereas the doctors had in mind the old book, in which No. 1 is given as *mist alba*. The chemist gave *mist. alba*. We learn that the Pharmaceutical Committee are in no way responsible for the formulæ.—Mr. J. T. Appleton, of Walkley and Hillsborough, was nominated at Leeds to represent the West Riding district near Sheffield at the forthcoming Pharmaceutical Committee election.

Surrey.—The Insurance Committee adopted on June 24 the report of the Medical Benefit Sub-Committee as to checking prescriptions (*C. & D.*, June 27, p. 138). It transpired that the chemists were willing to share in the expense.

West Riding.—Some discussion took place at a meeting of the Insurance Committee on June 25 on repeat prescriptions. A local doctor had refused to write a repeat prescription in full, and it had to be taken to the chemist who had first dispensed it. The Medical Benefit Sub-Committee had decided to intimate to the doctor that he must write out the full prescription, and that other doctors who do the same should be told about the matter. Alderman Dunn (Shipley), in moving the adoption of the minute, pointed out the undesirability of such repeats, and he was supported by Mr. S. N. Pickard (Ossett), who moved that the minute be referred back, which amendment was adopted.

SCOTLAND.

Edinburgh.—At a meeting of the Insurance Committee on June 25, the Medical Benefit Sub-Committee reported that they had generally approved of the proposals by chemists for a revision of the Drug Tariff. With regard to a letter from the Hon. Secretary of the Panel Committee as to the question of over-prescribing of cod-liver-oil emulsion, malt extract, and cod-liver oil, the Sub-Committee stated that, the case referred to being the first reported against the practitioner in question, the explanation he had given might be regarded as satisfactory. The practitioner had promised to exercise greater care in the prescribing of articles which came under the category of foods. The resignation of Mr. Charles Stewart, panel chemist, 119 Comiston Road, Edinburgh, was accepted. Mr. C. F. Henry was reappointed to examine and check prescriptions and compile reports thereon. The Scottish Insurance Commissioners intimated that they hope to make a statement at an early date upon an expert examination on the chemists' prescriptions in certain Scottish areas. This, it is understood, has been done by Dr. J. F. Tocher (Aberdeen).—At a meeting of the burgh Insurance Committee on June 24 it was agreed that the balance on the Panel Fund should be equally divided among the doctors on the panel.

Forfarshire.—At a meeting of the Insurance Committee on June 27, the Medical Benefit Sub-Committee recommended that no change be made with regard to doctors dispensing to insured persons on their list, and this was agreed to. It was resolved that first payments be made to the chemists for the current year on the basis of 90 per cent. of their accounts.

Glasgow.—The Insurance Committee have now paid 75 per cent. of the drug accounts for May, leaving a balance of 25 per cent. for the two and a half months previous to May 31.

WALES.

Carnarvonshire.—The chemists' accounts for the first three quarters of the year ended January 11, 1914, have been paid in full, and 50 per cent. has been paid on account of the amount due for the fourth quarter. The balance due for the latter quarter is 301*l.* 7*s.*, and the amount available to meet this sum, based on the amount credited to the Drug and Drug Suspense Funds, is 115*l.* 12*s.* 7*d.* The total amount due to the chemists for the year was 2,240*l.* 10*s.* 4*d.*, and the amount paid on account was 1,939*l.* 3*s.* 4*d.* The number of prescriptions and their cost per quarter were as follows:

	No. of Prescriptions	Amount £ s. d.
First quarter	20,378	579 7 6
Second quarter... ..	17,427	542 12 10
Third quarter	14,965	506 7 6
Fourth quarter... ..	18,230	612 2 6
Totals	71,000	£2,240 10 4

The average cost per prescription for the year was 7.5*d.*, and the average cost of prescriptions per head in respect of persons entitled to receive their medicines from chemists was 2*s.* 3*d.* For the first quarter of the current year the chemists' accounts amount to 260*l.* more than the amount for the corresponding quarter of last year.

EARLY MICROSCOPES.—Convex lenses, said Dr. Singer at a recent meeting of the Royal Society of Medicine, though known for centuries, were first adopted for investigating nature at the end of the sixteenth century. They were probably used by Mouffet and Hoefnagel more than sixty years before such workers as Hook and Leeuwenhoek perfected their methods of manufacture. The compound microscope was first discovered more or less accidentally by Zacharias, a Dutch spectacle-maker, about 1590. The idea was soon taken up by Galileo, and its principles developed by the work of Snell van Royen and Kepler.

ASSOCIATION AFFAIRS.

A Cambridge Concert.—One of the most pleasing and successful gatherings of the Cambridge Pharmaceutical Association was held on June 29, when seniors and juniors joined forces in holding a smoking-concert. The object of the meeting was the presentation of prizes to those who were successful in the recent examination for juniors. Mr. J. Evans (President) was in the chair, and there was a large attendance. Before the concert commenced, the Association unanimously decided to recommend Mr. E. S. Peck to the Pharmaceutical Society for nomination for the local Insurance Committee. During an interval of the concert Mr. Mallett announced the names of the prizewinners as follows: (1) Mr. F. J. Knowles (Remington's "Pharmacy"), presented by Burroughs Wellcome & Co.; (2) Mr. G. S. George (a voucher for the new B.P.), presented by the President; (3) Mr. H. A. Stearn (Newth's "Chemistry"). Alderman A. S. Campkin made the presentations. Votes of thanks were given to Mr. Prosper Marsden, of Liverpool, who set the examination paper; to Mr. Mallett for superintending the examination; and to Mr. Campkin for his address.

Bath and District.—The members of the Association and their friends (twenty-seven altogether) motored to Marlborough and Savernake Forest on June 25. Tea was served in the Savernake Hotel gardens, and after being photographed the party viewed the "Grand Avenue" through the forest and witnessed aeroplane flights from the Upavon School of Aviation. The return journey was by way of Pewsey, Upavon, and Devizes, Bath being reached at 10.30 p.m. after a delightful outing.

Cardiff.—Mr. W. R. Williams presided at a meeting of the local Association held at the Angel Hotel on Thursday evening, June 25. The Secretary read a letter from the Proprietary Articles Trade Association as to co-opting two members to the Council. Mr. Bellamy (Local Secretary to the P.A.T.A.) said he had suggested Mr. F. Lea, and the P.A.T.A. desired him to put the matter before the Association. He now formally proposed Mr. Lea for nomination, and Mr. J. A. Jones seconded. This was agreed to. A letter from the Pharmaceutical Society was read, asking the Association to submit the name of a pharmacist to be nominated to serve upon the local Insurance Committee. Mr. Hagon said he thought the time had arrived when he ought to retire from this position on the Insurance Committee, as he thought the post was one that ought to go round. At first it required someone with an inside knowledge of the Insurance Act, but the time had now arrived when he ought to retire, and he wished to tender his resignation. He would give every help to his successor. Mr. Bellamy said they were all sorry to hear of Mr. Hagon's resignation. Mr. Hagon had done yeoman service to the Association, and he thought its stability was in a great measure due to the untiring energy and ability of Mr. Hagon and his willingness at all times to give a helping hand to any of the younger members during their term of office. He (Mr. Bellamy), as one of the original members of the Association, knew from personal experience the amount of work done by Mr. Hagon. The President endorsed these remarks, adding that Mr. Hagon must have had the good of the craft at heart to give up so much of his time for the benefit of his fellow-pharmacists. Mr. Jabez A. Jones moved the acceptance of the resignation with deep regret, and thanks to Mr. Hagon for the vast amount of good work he had done. Mr. A. J. Bellamy having seconded, the motion was agreed to, and Mr. Hagon replied. The President said the next duty was to appoint a successor to Mr. Hagon. Mr. J. A. Jones was proposed by Mr. Hagon, but he declined, and, owing to the small number of members present, further action was deferred. Mr. Hagon mentioned that at the meeting with the Panel Sub-Committee on Tuesday, June 23, the question of "Rep. mist." was discussed, and it was agreed that they should recommend to the Panel Committee that a letter be sent to the Insurance Committee suggesting that for the future if chemists dispensed repeats they would not be paid for them. The Pharmaceutical Committee is to send a similar letter.

Liverpool.—An open meeting of Liverpool chemists was convened by the local Association at the Royal Institution on Wednesday evening, June 24. Mr. H. Humphreys Jones, F.C.S., presided. Messrs. Cluett, Owen, Lawrence, and Crooks were elected members of the Association. The picnic financial statement was read by the Honorary Secretary (Mr. Robinson), and showed a balance in hand of 17. 16s. 8d. Several members spoke of the great success of the outing, which, they added, was due to Mr. Robinson. The President said that one of the objects of the meeting was to discuss the desirability of inviting the

British Pharmaceutical Conference to Liverpool. He mentioned that eighteen years have elapsed since the last visit, and it is time for another. A letter was read from Mr. W. P. Evans promising every support, and one from Mr. Bain, expressing an opinion that there is plenty of time. Mr. L. Moreton Parry proposed that the delegates to the Chester meeting should extend on behalf of Liverpool chemists a hearty invitation to the Conference to visit Liverpool in 1916. Mr. Harold Wyatt seconded in an enthusiastic speech. Dr. Symes, Messrs. P. H. Marsden and Cleworth supported the motion, which was carried unanimously. On the proposition of Mr. J. Luther Hirst, seconded by Dr. Symes, the President and Mr. G. V. C. Last were appointed delegates to the conference in London on July 15 and to move the following resolution:

"That this Association emphatically protests against chemists signing any further contract containing the discounting clause."

Mr. L. Moreton Parry proposed that the Association should recommend the name of Mr. G. V. C. Last to the Insurance Commissioners to serve another term on the Liverpool Insurance Committee. Mr. D. H. Evans seconded, and the motion was agreed to, both speakers testifying to the valuable work done by Mr. Last.

London.—A meeting of the Executive Committee of the London County Pharmaceutical Association was held on June 23 at 17 Bloomsbury Square, Mr. E. White in the chair. After the formal business had been disposed of, the final form of the constitution and rules of the Executive Committee was agreed upon. The membership of the new Executive Committee for 1914-15 was agreed upon as follows: The President and Secretary of the Pharmaceutical Society (*ex-officio*). *Western*: Messrs. W. Wilkinson, H. R. Proctor, A. R. Melhuish, C. T. Allen, and G. A. Tocher. *South-Western*: Messrs. J. Keall, E. A. Atkins, W. E. Mason, and W. H. Goy. *North-Eastern*: Messrs. J. A. Thompson and W. A. Scott. *Northern*: Messrs. H. Skinner, A. H. Jenkin, J. Hearle, and J. Noble. *South-Eastern*: Messrs. E. G. Price, J. Y. Fairweather, W. C. Sayers, and J. Milner. *Eastern*: Messrs. G. W. Hatfield and A. R. Keith. *Corporate Bodies*: Messrs. W. B. Triek, J. Murison, W. T. Bolwell, and R. L. Scorgie. It was unanimously agreed to nominate Mr. Edmund White for appointment as pharmaceutical representative on the London Insurance Committee.

Norwich.—The quarterly meeting of the Norwich Pharmaceutical Association was held at the Castle Hotel on June 23, the President (Mr. Percy Robinson) in the Chair. There was a good attendance of city members. The Secretary reported that, as the result of the canvass of county members to find out the more suitable day and time on which to hold meetings, only five members had sent in any response. The matter was adjourned to the annual meeting in October. Mr. Maynard having resigned from the Norfolk Insurance Committee, Mr. J. M. Weller was unanimously chosen to fill the vacancy. A hearty vote of thanks was passed to Mr. Maynard for the time and service he had given on behalf of the Norfolk chemists. Nominations for the County and City Pharmaceutical Committees were then made. Mr. A. E. King reported that, as the result of the appeal on behalf of the Pharmaceutical Parliamentary Fund, he had received 117. 15s. Mr. King was thanked for his services. The delegates to the Local Associations Conference were once more reminded of the unsatisfactory position of the county chemists under the rural area regulations, and the delegates were instructed to support any suggestions for the removal of this regulation. Messrs. Robinson and Lacey were appointed delegates to the British Pharmaceutical Conference at Chester. The working of the Norwich chemists' rota for Thursday evening attendance was acknowledged to be a success, and in revising it for the coming half-year the Committee was instructed to consider the advisability of making the rota a one-in-four Thursday attendance.

P.A.T.A.—At the annual meeting of the Proprietary Articles Trade Association to be held on July 14 at the Salisbury Hotel, Salisbury Square, Fleet Street, London, E.C.4, at 3 p.m. the following notices of motion will be submitted by Mr. A. Higgs, J.P., Kingston-on-Thames:

(a) That the sale of medicines subject to duty without having on each packet or other enclosure a medicine-stamp is contrary to the provisions of the Medicine Stamp Duty Act, 1812.

(b) That the concession of the Board of Customs and Excise in permitting the sale of medicines subject to duty otherwise than in strict conformity with the Act is giving an undue preference to a certain class, since like facilities are withheld from vendors who are at the same time makers of the medicines.

(c) That the practice of vending medicines which have been duly stamped in smaller quantities without a stamp is illegal, besides being prejudicial to the public weal. It has been the means of affording facilities for unscrupulous vendors to substitute other medicines, thus defrauding the Revenue and the public.

South-West London.—The first annual outing of this Association took place on June 24 to Tunbridge Wells *via* Sevenoaks and Tonbridge, about eighty members and friends taking part. Tea was served at the Pump Room. Mr. A. E. Hobbs, Ph.C., distributed guide-books of the locality as souvenirs, and gave flowers to the ladies. The Masonic Temple and the famous Pantiles were visited, and the return journey commenced at 7.30, hearty cheers being given to the Tunbridge Wells pharmacists for their hospitality.

Wrexham.—A meeting of the Wrexham and East Denbighshire Chemists' Association was held at the Imperial Hotel, Wrexham, on June 26, Mr. C. G. Caldecott in the chair. It was reported that Mr. J. B. Francis (Hon. Secretary) was making a rapid recovery from his illness, and the members passed a vote of congratulation to him, the members expressing the hope of his speedy return to his duties. A letter from the Pharmaceutical Society regarding the nomination of a pharmaceutical representative of the Insurance Committee was read, and it was resolved that Mr. J. B. Francis should be asked to act. If, however, Mr. Francis found it impossible to act, it was decided that Mr. T. J. Roberts, of Ruthin, should be recommended. On the proposal of Mr. J. H. Francis it was resolved that the present members of the Pharmaceutical Committee should be nominated for re-election—namely, Messrs. C. G. Caldecott, L. B. Rowland, J. B. Francis, W. Nield, and J. E. Jones. There was some discussion with regard to Poor-Law dispensing on the same terms as Insurance dispensing, but the matter was deferred.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.

Council-meeting.

THE monthly meeting of the Council was held at 16 Bloomsbury Square, London, W.C., on July 1, and occupied only a short time. The President made an appropriate reference to the death of Dr. J. R. Green, of whom he gave some reminiscences. Grants amounting to 105*l.* were made from the Benevolent Fund. It has been arranged that next year the annual meeting will be held at three o'clock in the afternoon in place of midday, as the latter time was objected to at this year's meeting. The resignation of Professor A. W. Crossley was received, and the question of his successor is to be considered by a committee which will report to the August Council-meeting. Mr. R. A. Chell and Mr. E. J. W. Watson were appointed Bell scholars as the result of the recent examination. Mr. Arthur Barlow was appointed Manchester scholar. The School of Pharmacy prize awards were also made, the Martindale silver medal in pharmacy being won by Mr. C. J. Eastland.

The councillors present were Mr. Edmund White (President), Mr. E. T. Neathercoat (Vice-President), Mr. W. H. Gibson (Treasurer), and Messrs. C. B. Allen, A. S. Campkin, J. H. Cuff, W. L. Currie, F. J. Gibson, R. L. Gifford, A. Hagon, J. F. Harrington, J. Harrison, L. M. Parry, F. A. Rogers, P. F. Rowsell, F. P. Sargeant, T. A. White, and J. R. Young.

THE LATE DR. GREEN.

After the minutes of the previous meeting had been read and confirmed,

The President referred to the death of Dr. Joseph Reynolds Green, who for twenty years was professor of botany in the Society's school. The President mentioned that he was a student in the School of Pharmacy in the year in which Professor Green was appointed, and in the second year he assisted him in the establishment of practical laboratory classes which became a feature of Dr. Green's work in the Society's school. The Professor was very popular with the students, although he was a firm disciplinarian. His reputation was very high in botany and physiology, and his death is a loss to science which it will be difficult to fill.

Mr. Cuff said he desired to endorse what the President had said.

The President mentioned that a letter had been received from Lady Swan thanking the Council for their expression of sympathy on the death of Sir Joseph Swan.

ELECTIONS AND RESTORATIONS.

Six members and ten student associates of the Society were then elected, and ninety-one persons were restored to their former position in the Society. Three persons also had their names restored to the Register of Chemists and Druggists.

FINANCE.

The Treasurer then presented the report of the Finance Committee of which the following is an abstract: The receipts on the general fund amounted to 2,639*l.* 5*s.*, made up of the following items: Penalties and costs, 159*l.* 4*s.* 10*d.*; subscriptions, 166*l.* 8*s.* 6*d.*; "Journal" and publications, 127*l.* 15*s.* 2*d.*; restoration-fees, etc., 4*l.* 4*s.*; registration-fees, 92*l.* 8*s.*; examination-fees, 2,082*l.* 8*s.*; school-fees, 6*l.* 16*s.* 6*d.*—making with the sum carried forward a balance of 2,115*l.* 16*s.* 11*d.* From this the following amounts were recommended for payment: "Journal" and publications, 146*l.* 7*s.* 1*d.*; stationery, etc., 39*l.* 16*s.* 9*d.*; current expenses, 850*l.*; salaries, etc., 375*l.* 3*s.* 8*d.*; school and examinations, 40*l.* 17*s.* 11*d.*; law and professional charges, 33*l.* 18*s.* 6*d.*; house, 30*l.* 0*s.* 3*d.*; sundries, 2*l.* 6*s.* 6*d.*—a total of 1,518*l.* 10*s.* 8*d.* The balances on the Benevolent Fund were shown as follows: Current account, 485*l.* 18*s.* 10*d.*; donation account, 89*l.* 0*s.* 1*d.*; orphan fund, 29*l.* 19*s.* 8*d.*

The TREASURER, in moving the adoption of the report, said that the amount received for subscriptions was small, as is usual at this time of the year. The amount for examination-fees is 233*l.* more than it was at the corresponding period of last year. The receipts for the Benevolent Fund were low, but the balance is higher than it was last year. Among special donations that had been received was 16*s.* from Mr. P. C. G. Stiles, and 6*l.* 16*s.* 6*d.* collected at the dinner of the South-West London Pharmacists' Association.

The report was adopted.

BENEVOLENT FUND.

The report of the Benevolent Fund Committee was next presented by Mr. Rogers, the Chairman of the Committee.

In moving the adoption of the report, Mr. ROGERS mentioned that grants amounting to 105*l.* were recommended to be made. He also desired to thank the donors of the special contributions that had been received.

The report was adopted.

LIBRARY COMMITTEE.

The report of the Library, Museum, School, and House Committee was presented by the President. This stated that it had been decided that the results of the work done in the Pharmacy Research Laboratory should be communicated to the first evening meeting. The Committee conferred with representatives of the Board of Education on the requisite conditions for obtaining from the Board the increased grant in respect of the proposed recognition of the School of Pharmacy as a "Technical Institution." The Committee recommends that application be made to the Board of Education for recognition under Article 35. Purchases of books for the library were recommended, these including Besson's "Practical Bacteriology" and Hewlett's "Manual of Bacteriology." A further demonstration of vacuum cleaners was made to the Committee, and the purchase recommended of one to cost 24*l.* 5*s.* The matter of the appointment of a house porter and the retiring allowance to Hobbs were considered. It was suggested that a night-porter should also be appointed. Accounts amounting to 5*l.* 15*s.* 3*d.* for house repairs were passed to the Finance Committee for payment. The Committee considered a remit from the Council respecting the carriage of library books to members, and it was decided that the Society should pay the carriage of books to London members one way, as is done in the case of members residing in the provinces. The Committee also con-

sidered a remit from the Council as to whether it is possible to hold the annual meeting of the Society at a later hour than noon, and the Committee after discussion recommended that the Council should meet at two o'clock on the day on which the annual meeting is held, that the annual meeting be held at three o'clock, and adjourned for tea at 5.30 P.M., scrutiny of voting-papers to commence at 6.30 P.M., and the poll to be declared the same evening.

Mr. PARRY thought that the time of the meeting had been fixed rather late in the day for the convenience of provincial members, although he had no doubt it would be a better time for London members.

The PRESIDENT: You cannot have it both ways.

Mr. PARRY said he recognised the difficulties of the Committee, but he desired to thank the Council for considering the questions raised at the annual meeting—a course which, as far as he knew, had never been taken before.

The report was adopted.

THE REGISTRAR'S REPORT.

The REGISTRAR reported that during the month he had registered twenty-nine apprentices or students

THE SCHOOL STAFF.

The question of the appointment of the school staff was deferred until next month owing to the circumstance that Professor A. W. Crossley has tendered his resignation as Professor of Chemistry on his appointment to a similar position at King's College.

The PRESIDENT suggested that the matter of filling the vacancy should be considered by the Library, Museum, School, and House Committee, who would report to the Council at the August meeting.

On the proposition of Mr. ROWSELL, seconded by Mr. CUFF, this suggestion was adopted.

HEALTH INSURANCE MATTERS.

The first part of the report of the Parliamentary and General Purposes Committee consisted of the report of the Associations Executive Committee, which met on the previous day. The question of Welsh representation on the deputation to Mr. Masterman was raised by Mr. Joseph, and power was given to the President and Secretary to add to the deputation such persons as may be considered necessary. The Secretary reported on his visit to Bristol, which resulted in a good meeting and a donation of ten guineas to the Parliamentary Fund. He also reported on the work done in regard to the reconstitution of Pharmaceutical Committees, and detailed some of the difficulties he had had to cope with in carrying out his duty as Returning Officer. The Committee considered a remit from the Council relative to the policy alleged to be adopted by the Seamen's National Insurance Society. The Secretary read the sections of the Statute referring to the Seamen's Society and the Regulations made under the Statute, and explained the reasonable interpretation to be placed upon those provisions. The Committee agreed that the Secretary should obtain actual evidence of the procedure objected to and report as to the methods which would be most suitable for safeguarding the interests of panel pharmacists and of insured persons who desire to exercise a choice of dispenser. Letters were read from the Halifax Association and from the Tyne-mouth Pharmaceutical Committee respecting the position of the Drug Fund.

The remaining portion of the report of the Parliamentary and General Purposes Committee recommended the following award of

SCHOOL PRIZES.

Botany.—Bronze medal, Dora Florence White; certificates of honour, Cyril Jack Eastland, Arthur Joseph Somer.

Chemistry and Physics.—Bronze medal, Cyril Jack Eastland; certificates of honour, Robert William Bowles, Harold Dakin Rogers and Dora Florence White.

Practical Chemistry.—Bronze medal, Robert William Bowles; certificates of honour, Cyril Jack Eastland, Joyce Mary K. Ledger.

Materia Medica.—Bronze medal, Cyril Jack Eastland; certificates of honour, Arthur Joseph Somer, Jas. Algenon Turner.

Pharmacy.—Martindale silver medal, Cyril Jack Eastland; certificates of honour, Arthur Joseph Somer, Jas. Frank Meredith, Clarence A. L. Wiles.

C. J. Hewlett Memorial Exhibition.—Robert William Bowles.

The report was adopted.

SCHOLARSHIP EXAMINATIONS.

The Committee appointed to award the Jacob Bell Memorial Scholarships and the Manchester Pharmaceutical Association Scholarship reported that the examinations were held on June 16, and that fourteen candidates competed for the Jacob Bell Scholarships at the following centres: London 11, Manchester 2, Edinburgh 1. The minimum number of marks for the award of a Jacob Bell scholarship is 400, or two-thirds of the maximum standard. The candidates who adopted the mottoes "Je ne sais rien" and "White Rose," having obtained more than the requisite number of marks, and having sent in certificates satisfactory to the Committee, the Committee awarded the Scholarships (subject to the approval of the Council) to Randolph Arthur Cheff, Reading, and Ernest John Witty Watson, Leeds. The candidates who adopted the following mottoes also obtained more than the qualifying number of marks: "En evant," "Esse quam Videri." Two candidates sat for the Manchester Scholarship, and the candidate who adopted the motto "Pix," having obtained more than the requisite number of marks, and having sent in satisfactory certificates, was awarded the Scholarship (subject to the approval of the Council). His name is Arthur Barlow, Radcliffe.

Mr. HAGON said he did not consider the number competing at all satisfactory. He thought the conditions governing the Scholarship needed overhauling.

The PRESIDENT said the difficulty is that the things necessary to increase the popularity of the scholarships are just the things which the Council consider should not be done in the best interests of education.

Mr. YOUNG suggested that Mr. Hagon should make the suggestions he has in mind to the House Committee.

The report was adopted, and the awards made as recommended.

A vote of thanks was also passed to Mr. H. Finnemore, who acted as honorary examiner.

Mr. E. M. Holmes was appointed to adjudicate on the Herbarium Competition.

CORRESPONDENCE.

The Secretary in Scotland reported the result of the election for the Executive of the North British Branch and other matters.

Mr. CURRIE called attention to the masterly statement made by the Chairman of the Branch at the last meeting of the Executive.

The Society of Apothecaries wrote suggesting a joint conference in regard to the position of holders of the Assistants' Certificate of that body. This matter was left to the President to deal with.

A letter was received from the Colonial Pharmacy Board, Cape Town, regretting that Latin is to be an optional requirement in the Pharmaceutical Society's preliminary regulations. The letter also stated that the Board is about to consider amendments of the regulations with a view of accepting for the Cape chemist and druggist examination only the certificates of those who have passed an examination in Latin.

The Council considered the letter an unfortunate one, especially in view of the trend of education in this country. The view of the Council on the matter of making Latin optional has been adopted since by some of the Universities.

The North-East Lancashire Association conveyed a resolution of appreciation of the work of the Society.

The Pharmacy Board of New Zealand sent a copy of the register and Report of the Board for 1913.

The North Staffordshire Chemists' Association urged the Council to obtain concessions from the National Health Commissioners to enable Insurance Committees to pay chemists' bills.

This concluded the public business.

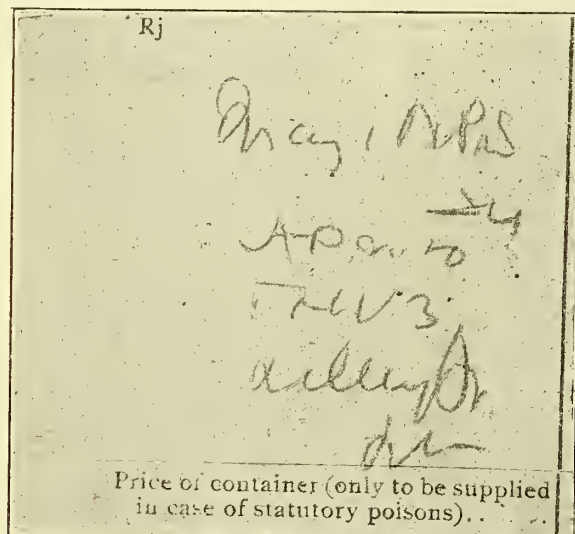
Late Law.

BORIC-ACID OINTMENT.—At the Greenwich Police Court on July 2, Mr. Chapman, the Stipendiary, heard a case instituted by the Greenwich Borough Council against Sydney Baker, chemist and druggist, 16 Church Street, Greenwich, who was charged with selling boric-acid ointment deficient to the extent of 15 per cent. of boracic acid. Mr. Cyril Kirby, solicitor, who acted for the defence, tendered a plea of guilty. In doing so he put in a certificate signed by Mr. Otto Hehner, the well-known analyst, which showed that the third portion of the sample purchased and submitted to him was only deficient to the extent of 9 per cent. of the B.P. standard. Mr. Kirby also submitted a letter from the firm from whom defendant purchased the ointment in question, stating that at the time of sale to him the ointment contained the prescribed proportion of boracic acid. The Magistrate, accepting the explanation made, said he should make no conviction, but would order defendant to pay 22s. costs.

ARSENIC IN PILLS.—Before Mr. Chester Jones, at Old Street Police Court, London, on July 2, William Shadforth, pharmaceutical chemist, 63 Grove Road, Bow, E., was summoned, at the instance of the Pharmaceutical Society, for selling through the post pills containing arsenic to a person unknown to him, and who had not been introduced to him by a responsible person. Mr. Quarrell, solicitor, acted for the Society, and the defence was conducted by Mr. Cyril Kirby (of Messrs. Neve, Beck & Kirby, solicitors). Mr. Kirby, in tendering a formal plea admitting contravention of the Act, said that the view of his client and of the general trade had always been that the pills in question are not a preparation, but an admixture containing arsenic with four or five other ingredients. His client had right along acted openly, because the formula of the pills was explicitly stated on each box. He handed in samples of identical pills purchased from well-known London chemists, among them an ex-President of the Pharmaceutical Society, all of which had been sold under precisely the same conditions as those which gave rise to the prosecution. Mr. Chester Jones agreed that it was quite right to stop such a method of sale of poisons. At the same time he did not think the case was one for conviction. Defendant must understand he could not do the same thing again. The case would be met by his ordering defendant to pay two guineas costs.

PRESCRIPTION PROBLEM.

FOLLOWING is a facsimile of a prescription for an insured person. The Editor invites postcard renderings of it exactly as written. Prizes will be awarded to successful competitors, time of posting as well as accuracy being taken into account. The last date for receiving replies will be Friday, July 10:



TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., July 2, 6.30 p.m.

THE end of the quarter and the heat-wave leave the markets in a generally listless condition so far as drugs and other produce are concerned, but there appears to be a somewhat better demand for heavy chemicals, both on contract and for forward delivery. A few important changes have occurred, these including an advance of 4s. 6d. to 5s. per lb. in santonin; opium remains strong at primary sources, and morphine prices are about 3d. dearer from makers. Aloin is slightly higher, both from English and foreign makers; apiol is lower. Among chemicals, carbolic acid is firmer, and benzols easier. Copper sulphate is flat. Quicksilver is weak and lower in second-hands. Quinine steady, with a fair business from dealers. Thymol is about 3d. higher. Other changes include an easier feeling in balsam tolu. Bayberry-bark is slightly dearer, and belladonna is again higher. Lemon and bergamot oils easier. Menthol quiet, at fluctuating prices to arrive. Nux vomica is still excessively scarce. The hot weather has created an active demand for aerated-water materials, such as citric and tartaric acids, cream of tartar, lime and lemon juice. The principal changes are as under:

Higher	Firmer	Easier	Lower
Aloin	Anise oil	Arsenic	Apiol
Ammonia sulphate	(Star) (c.i.f.)	Balsam tolu	Arrowroot
Belladonna-root	Bayberry-bark	Copper sulphate	Benzols
Santonin	Carbolic acid	Ginger	Cinnamon
Turpentine	Morphine	Lemon oil	Mace (W.I.)
	Thymol		Quicksilver

Cablegram.

NEW YORK, July 2.—Business in drugs is fair. Opium is steady at \$6.85 per lb. for druggists' by single packages. Peppermint oil in tins is 5c. lower at \$5.80 per lb. Menthol is steady at \$3.00, copaiba is easier at 40c., and Para is also easier at 42c. Senega is lower at 60c., and Mexican sarsaparilla is also cheaper at 33c. per lb.

London Markets.

ALOIN of English make is slightly dearer at about 3s. 3d. to 3s. 6d. per lb. net. Several American makers have advanced their price to 75 cents.

ANISE OIL (STAR).—Small sales of "Red Ship" brand (15°) have been made at 5s. 5d., and for July-August shipment 4s. 6d. c.i.f. has been paid, but sellers ask 4s. 7d. c.i.f.

APIOL is from 2s. to 3s. per lb. lower, fluid green offering at about 26s. per lb.

ARROWROOT is lower, good manufacturing St. Vincent offering at 2½d. per lb., with sales thereat.

BALSAM TOLU is easier, with sellers at from 1s. 11d. to 2s. per lb. spot.

BAYBERRY-BARK rather dearer for new crop, no offers being obtainable under 27s. 6d. c.i.f., which is 2s. 6d. more than the opening price of last year.

BELLADONNA-ROOT is higher at 70s. per ewt. c.i.f.

BENZOLS are easier, 90 per cent. offering at from 10½d. to 11½d. per gal. naked, and 50 per cent. 10d. naked. North is 10d. to 10½d. and 10d. respectively. The demand for motor uses is good, but large quantities usually exported are offered on this market as Germany is supplying the Continental markets with her surplus production.

BERGAMOT OIL has an easier feeling, prices varying from 16s. 3d. to 16s. 6d. per lb. c.i.f.

BLACK HAW OF ROOT has been in active demand at primary sources, but the drought has affected supplies, and there will be little new crop; the quotation is 9d. per lb. c.i.f.

CAMPHOR (REFINED).—Japanese remains firm at 1s. 8d. for 1-oz. tablets, 1s. 8½d. for ¼-oz., and 1s. 7½d. to 1s. 8d. for slabs; some business in slabs for July-August and August-September shipment has been done at 1s. 7¼d. to 1s. 7½d. per lb. c.i.f.

CARBOLIC ACID is firmer, medicinal quality (40° C.) ice crystals offering at 3¾d. per lb. for contract quantities in largest bulk packing, detached crystals being 1d. more. Crude 60° East Coast prompt 1s. 1d. to 1s. 2½d., West Coast 60° prompt 1s. 1d. to 1s. 2d. per gal.

CASCARA SAGRADA.—Business has been done at 32s. 6d. per ewt. c.i.f. to arrive; spot values are from 36s. to 40s., according to age.

CASSIA OIL is quiet, with spot offering at 3s. 2d. for 80 to 85 per cent., 3s. for 75 to 80 per cent., and 2s. 10d. for 70 to 75 per cent.

CASTOR OIL.—Hull make for prompt delivery is quoted at 25½s. for first pressing, 25½s. 10s. for July-December (1914), and 25½s. 15s. for January-June (1915) delivery, usual terms, delivery free on wharf London. Pharmaceutical quality is 50s. per ton over the price of firsts, and oil in tins and cases 50s. per ton over the respective price in barrels. Belgian firsts for prompt and forward delivery is quoted at 24½s. 15s. per ton f.o.b. Antwerp.

CHAMOMILES are in fair demand, fair No. 1 offering at 50s. per ewt. c.i.f. New Belgian crop is not expected before the beginning of August.

CINCHONA.—The auction to be held at Amsterdam on Thursday, July 16, will consist of 1,480 packages pharmaceutical bark, weighing 93,011 kilos, and the amount of manufacturing bark to be tendered for on Wednesday, July 15, will be 10,496 packages, weighing 918,101 kilos. The first-hand stock at Amsterdam on June 25 consisted of 9,781 packages Government and 46,997 packages private bark, including the first-hand stocks to be offered on July 15 and 16. The bark shipments during June amounted to 1,578,000 Amst. lb., against 1,899,000 A. lb. in 1913. The total shipments (January-June) amounted to 7,785,000 A. lb., against 7,461,000 A. lb. in 1913.

CINNAMON is lower, with sellers of London assortment at 10¾d., firsts 11¾d., and seconds at 10¾d. per lb. c.i.f. for July-August shipment.

CITRIC ACID remains very firm at 2s. 5d. per lb.

CLOVES.—Nothing offered at auction. Privately sellers of fair Zanzibar quote 5¾d. spot, demand being small. The sales for delivery include 500 bales June-August at 5¾d. to 5½d., and July-September 5½d.; to arrive sellers of October-December quote 5¾d. c.i.f., with buyers at 5½d.

COCA-LEAVES.—The auction to be held at Amsterdam on July 16 will consist of 2,047 packages, weighing 107,517 kilos. The exports from Java to Europe during June 1914 amounted to 2,343 packages, against 2,389 packages in 1913.

COCOA-BUTTER.—The spot value is 1s. 4d. per lb.

COD-LIVER OIL.—Our Bergen correspondent writes on June 29 that the Finnmarken fishing is now closed, and the total results of all codfisheries is now as follows:

	1912	1913	1914
Catch of cod (millions)	99.2	76.0	81.5
Yield of c.l.o. (hect.)	76,200	48,260	57,200
Yield of liver for raw oils (hect.)	34,000	11,500	12,600

The market is extremely quiet, barely any business having taken place during the past fortnight, and the quota-

tion of 71s. 6d. per barrel c.i.f. for prime non-congealing oil is merely nominal.

COPAIBA.—The *Lanfranc*, from Para, has brought 22 cases to Liverpool.

COPPER SULPHATE is flat at from 19l. 17s. 6d. to 20l. for prompt, and July delivery of the usual Liverpool brands.

ERGOT is quiet, the value of good sound Russian being 1s. 8½d. to 1s. 9d. spot, with thin Siberian obtainable at slightly less.

GAMBOGE.—Small sales of fair Siam pipe have been made at the unaltered rate of 13l. per cwt.

GINGER.—Small sales of Sierra Leone have been made in Liverpool at 15s. 6d. per cwt. At the London auction 1,612 bags Cochin and Calicut were offered, and 458 sold partly without reserve at easier rates, comprising medium Calicut cut at 60s., ordinary washed rough Cochin at 23s. 6d., small shrivelled and wormy 20s., good brown Calicut rough 31s., and brown wormy cuttings without reserve 33s. to 35s. 6d.

GUM ACACIA.—Sudan sorts are steady at about 37s. 6d. per cwt. c.i.f., which price is also asked to arrive. Senegal is firm, with offers few.

INSECT-FLOWERS are in fair demand, closed offering at 120s. per cwt. c.i.f.

LEMON OIL has an easier tendency, agents offering forward at from 7s. 6d. to 8s. 6d. per lb. c.i.f., according to brand. Spot prices are from 8s. to 8s. 9d. Market is quiet, dealers appearing to be well supplied.

A Sicilian advice, dated June 27, states that the demand from abroad, which those who were interested in the maintenance of prices thought would set in and consolidate them on the high level they had reached, has been entirely lacking. Consequently, as no important new local requirements came to light, what we foreshadowed in our last report has actually taken place, and the tendency is now easier. In fact, it is possible to-day to find some small parcels which the less important producers are inclined to sell. However, the large producers, who form part of the Syndicate, firmly maintain their ideas of price at the highest level which has been touched during the last few weeks. This gives our market, despite the present weaker tendency, an uncertain aspect, and it is very difficult to say whether or not, in the event of an important demand setting in from abroad, the market will again show its firm tendency.

LIME-JUICE is an upward tendency, with business in 1,000-gallon lots of West India at up to 1s. 10d. per gal. Lemon-juice has been selling in fair quantities at 2s.

MACE.—The large supply of 171 packages West Indian offered and sold at a drop of 1d. to 1½d. per lb., including palish to pale at 1s. 10d. to 1s. 11d., fair to good, reddish 1s. 8d. to 1s. 9d., dark red 1s. 7d. to 1s. 8d., and ordinary to good broken 1s. 3d. to 1s. 7d.

MENTHOL is very quiet, with spot holders asking 10s. 3d. to 10s. 6d. per lb.; to arrive, market has fluctuated, with sellers of October-December shipment, combined with oil, at 13s. 10½d., and January-March 1915 at 13s. 6d.; also menthol alone for February-March at 9s. 9d. c.i.f. On the Hamburg market spot sales have been made at 10s. net for Kobayashi-Suzuki.

The exports of menthol from Japan during April amounted to 40,355 kin, valued at 275,605 yen, and for the four months ended April 30 the figures are as follows:

	1912	1913	1914
Kin ...	65,047	105,950	164,659
Yen ...	676,386	1,466,955	1,160,006

The destinations for the four months (January-April) were as follows:

	1912	1913	1914
	Kin	Kin	Kin
British India ...	3,005	3,621	6,947
Great Britain ...	14,813	30,697	34,584
France ...	6,525	15,758	9,501
Germany ...	25,431	37,160	64,709
United States ...	14,676	13,853	44,020
Other countries ...	597	4,861	4,898
Kin ...	65,047	105,950	164,659
Yen ...	676,386	1,466,955	1,160,006
= Cases ...	1,445	2,354	3,659

The exports of *mint oil* from Japan during April amounted to 39,653 kin, valued at 134,064 yen, and for the four months (January-April) the figures are as follows:

	1912	1913	1914
Kin	83,420	152,432	169,030
Yen	300,095	644,709	527,239
= Cases	1,854	3,387	3,756

The above are the official figures, and show a total of 7,415 cases for both menthol and oil.

MORPHINE.—The July lists of makers show an advance of about 3d. per oz., making the quotation of hydrochloride 8s. 9d. per oz. net, and crystals 8s. 11d. net.

MUSK is unaltered, fine blue-skin pile I Tonquin-pod offering at 70s. per oz., and old-fashioned of good quality at 60s. Middling Russian Cabardine is quoted at 18s. per oz.

NUTMEGS.—At auction, 607 packages West Indian, offered and sold at generally steady prices.

NUX VOMICA.—Arrivals include 691 bags from Cochin and 797 packages *in tr.*, which are for delivery against contracts. Offers remain practically unobtainable, and the doubt is expressed that there will be little available for the remainder of the year.

OPIMUM remains a strong market, and there appears to be no sign of a break in prices yet, probably owing to the fact that excessive rains at the time of collection is leading to a diminished yield, which may have the effect of reducing crop estimates. To-day's quotation for 11½ per cent. is 15s. 9d. c.i.f., and the spot value of 11-per-cent. is 16s. 6d. Soft shipping of desirable quality is very scarce and worth from 18s. to 20s. per lb. Persian has been in good demand, principally for export, at prices ranging from 16s. to 19s. per lb., according to test and condition.

A Constantinople correspondent writes on June 27 that, owing to the continuous rain, which is causing considerable damage to the winter sowings, our market, as well as that of Smyrna, is maintained. At Constantinople 42 cases of druggists' were sold at from 217 to 235 pirs. Unless rain ceases, we may have to reduce our former estimate with regard to the new-crop outturn; the demand continues. The arrivals in Constantinople have been 25 cases druggists', against 36 cases, and the stock is 266 cases, against 260 cases, this consisting of 237 druggists' (against 158), 26 cases "soft" (against 73), and three cases Malatia (against 29).

ORANGE OIL.—An advice from Sicily, dated June 27, reports that very few, and only unimportant, transactions were concluded.

PEPPER.—Nothing offered at auction; privately spot is quiet with fair black Singapore offering at 4½d., and for June-August shipment 4½d. c.i.f. is quoted. At auction 73 bags ordinary white Singapore were bought in at 8½d.; market privately remains quiet, with sellers of fair Singapore at 8½d. and fair Muntok at 9½d.; August-October shipment of Singapore has been sold at 8½d. to 8¾d. c.i.f. d.w. and sellers.

PEPPERMINT OIL remains unchanged at from 17s. 6d. to 18s. per lb. for American tin oil, the quotation for new crop, which is quite speculative, being nominal at 11s. c.i.f. The only bottled brand is offered at 21s. 6d., London terms, and new crop, to arrive in the autumn, at 16s. 6d., London terms. It is quite anticipated that the new so-called Wayne County crop will be good, and that prices will be considerably lower, but as yet no new oil has been distilled.

PIMENTO.—At auction 17 bags sold at 17d. per lb., being steady.

PODOPHYLLUM-ROOT.—Springdug is now being offered, but the new crop of fall-dug, which is much preferred on this side will not be available for some months; old crop of the latter is worth 46s. c.i.f.

POTASSIUM IODIDE.—The exports from Japan during April were 9,282 kin, valued at 56,624 yen, and for the four months (January-April) the figures are as follows:

	1912	1913	1914
Kin	23,956	25,973	31,525
Yen	107,613	151,378	204,176

There were no exports of *crude iodine* in April; the figures for the four months ending April were: 1914, 8,377 kin; 1913, 4,820 kin; and 1912, 6,205 kin.

QUICKSILVER.—There appears to be keen competition among two of the leading importers which has resulted in an unsettled and lower market. Messrs. Rothschild do not name a price at the moment, but the metal can be bought at 6l. 12s. 6d.

QUININE steady, with sales reported from second-hands at from 50,000 oz. to 100,000 oz. at 1s. 0½d. for the usual German brands of sulphate.

RHUBARB.—Recent private sales include medium and bold flat Canton of fair fracture at 3s., and flat High-dried at 1s. per lb.

SANTONIN.—The Santonin Syndicate have advanced their prices by 4s. 6d. to 5s. per lb., and now quote 1-cwt. lots in one delivery at 115s. 6d., 56 lb. 118s. 9d., 28 lb. 121s. 6d., 14 lb. 124s. 6d., and smaller quantities 127s. 3d. per lb. net.

SARSAPARILLA.—The *Catalina* has brought 23 bales native Jamaica.

SHELLAC is steady, the spot value of T.N. being 63s., and free A. C. Garnet 65s. Sellers of June-July shipment of T.N. orange quote 62s. 6d. and A. C. Garnet for October-December 63s. c.i.f. Futures are quiet, the sales including August at 62s. to 62s. 6d., October 63s. 6d., December 64s. 6d. to 65s. 6d.

TAMARINDS.—The *Samun*, from Barbados, has brought 174 barrels.

TARTARIC ACID is very firm and in good demand. English is 1s. 1½d. and foreign 1s. 1d.

THYMOL is about 3d. dealer, makers asking 7s. 9d. per lb.

TURMERIC.—Sales of good Madras finger have been made at 18s. 6d. per cwt. on spot, and for Bengal finger sales for June-July shipment are reported at 12s. 1½d. c.i.f. Cochin split bulbs offer at 12s. spot.

TURPENTINE has fluctuated sharply during the week, touching 34s. 3d. on Monday and closing to-day (Thursday, 4 P.M.) at 33s. 7½d. for American on the spot.

WAX (BEES').—Sales of Conakry have been made in Liverpool at 8l. per cwt. In the London auction 28 bags Australian offered and four sold at 7l. to 7l. 10s. for ordinary dark.

WAX (JAPANESE) is steady, with spot sales at 48s., and to arrive, business is reported at 44s. c.i.f.

Heavy Chemicals.

Business in the heavy-chemical market is fairly steady, and there seems to be, if anything, a somewhat better demand on prompt account, while there are also more inquiries for forward. Export demand is fairly good. Values are well maintained, and stocks are regulated by demand.

SULPHATE OF AMMONIA has certainly a steadier tone, and prompt parcels offering get taken up well. In spite of this, the general condition of the market must still be called unsettled. Buyers seem to be willing to pay somewhat more, but the makers' ideas have also advanced. Present nearest figures: London terms, 25-per-cent., 10l. 2s. 6d.; Leith, 10l. 12s. 6d.; Liverpool, 10l. 12s. 6d.; and Hull, 10l. 10s. Premium for forward may be reckoned as 5s. to 7s. 6d. per ton.

ALKALI-PRODUCE.—The general conditions of the market remain as for some time past, and, generally speaking, prices are well maintained. Bleaching-powder has been in heavier demand, and stands at 5l. 2s. 6d. to 5l. 15s. per ton, according to conditions. Caustic soda has also been in better request: home trade, 70-per-cent., 9l. 7s. 6d. to 9l. 12s. 6d., and 60-per-cent., 8l. 7s. 6d. to 8l. 12s. 6d.; export, 76-per-cent., 8l. 15s. to 10l., 70-per-cent., 8l. to 9l. 5s., and 60-per-cent., 7l. to 8l. 5s. per ton, according to destination. Ammonia alkali in good all-round demand, at 2l. 17s. 6d. to 3l. 10s. per ton, free on rails. Soda-crystals steady, at 42s. 6d. to 45s. per ton, free on rails, in bags. Salt-cake maintained at 42s. 6d. Yellow prussiate of potash, 53d. to 6d.; and soda, 4d. Chlorates of potash and soda, 3½d. to 4d. Bicarbonate of soda in fair request at 5l. to 5l. 10s. Hyposulphite of soda continues to move well, and is steady; ordinary crystals, 5l. 7s. 6d. to 5l. 17s. 6d. per ton; deliveries in 1-cwt. kegs vary from 5l. 17s. 6d. to 8l. per ton, according to quality and quantity. Silicates of soda are in good request, and are maintained at late rates; 140° Tw., 4l. 12s. 6d. to 5l. 2s. 6d.; 100° Tw., 4l. 2s. 6d. to 4l. 12s. 6d.; and 75° Tw., 3l. 12s. 6d. to 4l. 2s. 6d. per ton, according to quality, quantity, and destination.

Continental Drug and Chemical Markets

CONDURANGO.—In spite of plentiful supplies, prices have not fallen; on the contrary, bids under the limits have been refused by the importers. An increase in prices is even held to be not improbable as soon as a larger proportion of the home stocks has gone into firmer hands.

GLYCERIN.—There are a few cheap offers in the market, but these cannot be attributed to a general decline in raw material, because, although saponification quality declined by fr.2½ in the first half of June, crude has remained unchanged. This is probably owing to the liquidation of a large factory, whose stocks were thrown on to the market.

KOLA.—The demand has increased somewhat, and first-hands have done business at from m.55 to m.56 per 100 kilos.; good quarters are offered from second-hands at m.58, and halves at m.55 per 100 kilos.

MAXNITE.—Stocks have now shrunk considerably, and makers have taken advantage of this in order to raise the very low quotations. Future position depends on the crop of manna, which takes place in August.

ORRIS.—According to reports received, a richer crop and lower prices are looked for in Florentine root in the autumn, while Verona is expected to be a smaller crop.

SENEGA.—With the maintenance of the already high prices during the past few months stocks have been reduced to a few bales only in first-hands, for which m.590 to m.600 per 100 kilos, is named. With regard to the new crop, efforts will no doubt be made in U.S.A. to maintain present quotations, and if this is again supported by small crop results, as in 1913, there is not much possibility of easier prices.

THYMOL is somewhat scarce at present, and second-hands do not offer any in port quantity. Makers on the whole are maintaining their prices, as raw material has not been offered for several months; m.14 per kilo, is asked.

TONKA-BEANS have been in increased demand lately, no doubt owing to the Surinam and Para crops being finished and to the very unfavourable reports of the new crop of Angostura crop. The Angostura crop is only said to amount to about 10,000 lb. The present quotation of m.12.50 per kilo, for Angostura is therefore regarded as cheap. Surinam are still offered cheaply at m.6, and Para at m.4.50 per kilo.

WAX, JAPANESE.—Spot (Hamburg) is very scarce, with business at from m.104 to m.108. Offers to arrive are also few, the last being m.92 to m.94 per 100 kilos.

American Drug Market.

New York, June 21.

A slight improvement has been noted in the drug-market within the past month, but an increasing tendency is shown to make small concessions, in the hope of stimulating buying.

ARNICA-FLOWERS have been reduced to 12c. and 13c., according to grade and holder.

BALSAM, FR.—Holders of Oregon are now offering at 90c. to \$1.00, in view of a seasonable slackening in demand and accumulation of spot stocks. The Canada grade, however, is still held at \$1.00 to \$12.00. Some holders, desiring to realise, are offering at \$10.00 to \$11.00 per gal.

BALSAM PERU has been revised downward to \$1.40 to \$1.50.

BALSAM TOLU is easier, owing to increased supplies. Quotations range from 52½c. to 55c., according to quantity.

BELLADONNA-LEAVES.—Spot stocks are reduced close to the vanishing-point.

BUCKTHORN-BARK is firmer, owing to diminished stocks here. The supply available is small, and the tendency is upward. Holders are asking 12c. to 15c.

CASCARA SAGRADA is meeting with a moderate demand, and the market is firm. Previous quotations, 8c. to 10½c., were repeated.

COPAIBA.—South American is meeting with a moderate demand, and remains firm at 42c. to 47c., as to grade. Para is being well maintained at 48c. to 50c.

IPCACUANHA.—Cartagena has met with a slim demand and the market is easier. Local dealers are offering at \$1.45 to \$1.55. Rio is still strongly held at \$2.00 to \$2.10.

LEMON OIL.—Market is weakening. New York importers have lowered their prices to \$2.10 for most brands, and a few brands are available as low as \$2.05 and even \$2.00.

LYCOPodium is steady at 3½c. to 39c., as to quantity, and fair sales are made on that basis.

MENTHOL.—A further concession has been made in the prices asked by local importers and other handlers, due to the flagging demand and a consequent accumulation of spot stocks. Holders are generally offering spot supplies at \$3.00.

PEPPERMINT OIL (AMERICAN).—The local market is very strong, with a majority of holders standing out for \$4.50 in tins. In a few instances, however, very small lots are still available as low as \$4.25 and \$4.35. (See cable.)

SAFFRON (AMERICAN).—A noteworthy scarcity of American flowers is still reported, and prices continue at 55c. to 57c., as to quantity and holder.

SARSAPARILLA.—Although 110 bales of Mexican arrived this month, the goods failed to reach the open market, as they had been already sold to arrive, and spot supplies therefore continue relatively light. Prices are from 35c. to 50c., as to quantity. Honduras is easier. The demand recently has been light, and there are sellers at 45c.

SASSAFRAS is in seasonably active demand. Prices are firmly maintained at 12c. to 15c., and at 16c. to 18c. for selected.

Turpentine.

There has been unmistakable evidence lately of the prospects in turpentine steadily improving. What between the materially reduced imports, the comparatively small receipts in America, and the fact that the available stocks on this side have been drawn upon in the course of this year to meet the larger deliveries against current contracts, there has been sufficient inducement to take more interest in the article. No great rush of speculative buying has been shown at any time, but the general demand has been good; on any reaction dealers have shown a disposition to lend fresh support for forward deliveries at a notable premium, and the market has a healthy appearance. The new-crop movement is very backward, while prospects of yield are said to point to a falling-off against last season. According to the latest advices, the receipts at American points have now assumed more tangible proportions, but they are still very moderate and well absorbed. With American trade requirements on the increase, it is generally surmised that the exports to this side will not increase much yet awhile. Prices in America have had temporary set-backs, but trading there has broadened out considerably. It is true that current prices already show a big recovery from the lowest point seen last year, when the market was sorely tried by the serious difficulties in connection with the American Naval Stores, and the general demand was prejudiced by a heavy surplus of supplies through successive big crop yields, but reserve stocks are now being gradually brought down to more normal dimensions. This naturally is making for a revival of speculative enterprise. In spite of the upward movement witnessed in recent months, the run of the deliveries has been excellent, the total outgoings from London warehouses this year up to the middle of June amounting to 47,168 barrels, an increase of about 4,600 and 6,500 barrels respectively compared with the same period of the previous two years. The London visible supply on June 15 was 29,421 barrels, against 22,846 barrels last year and 22,238 barrels two years ago. Our imports for the five months to the end of May show a big reduction, their total value representing only 89,942½, compared with 154,531½ for the same period of last year. Current prices are still very moderate compared to those ruling until about two years ago, and the demand for substitutes is not active.

World's Vanilla Crops.

Mr. Hermann Mayer, sen., has issued his annual vanilla statistics for the 1913-14 season, showing a production from all parts of the world of 540 tons, composed as follows:

	Tons		Tons
Bourbon	45	Guadeloupe and Martinique	14
Seychelles	6½	Mexico	135
Comores and Mayotte	75	Tahiti	180½
Madagascar, Nossi-Be, and Ste.-Marie	66	Oddments from fresh ground	2
Mauritius, Java, Fiji, and Ceylon	16		
			540

The above total proves to be 34 tons less than the previous year's yield—a fact foreshadowed on the occasion of our last year's statistical report. The trend of values has, notwithstanding, been downwards, for which the following causes may be assigned: (1) A comparatively heavy carry-over from the 1912 crop, due to the unsettled general conditions prevailing in the political and financial world during 1912; (2) the economic consequences of these disturbing factors were brought out during the 1913-14 season now under review; (3) the absence of a sustained demand for the grades which form the basis of the European trade on the part of the U.S.A., due to the Mexican situation—i.e., abnormally low rate of exchange and continued uncertainty as to the moment when heavy accumulations of stock in Mexico may be released; (4) the fiscal changes and resultant trade disturbances brought about during the current season as regards imports on vanilla, viz.: (a) An import-duty of 30 cents per lb. on all vanilla entering the U.S.A.; (b) an export-duty of \$2 Mexican currency on all vanilla leaving Mexico, first imposed, then repealed, and now again threatened; (c) allowing vanilla grown in French colonies

and entering France direct to be imported duty free, against a hitherto existing impost of 2.08f. per kilo., while all foreign growths are taxed with 4.16f. per kilo. as before. Compared with the previous season, the total shrinkage in the mean value can be put down at 10 per cent. on an average, at less for Tahiti sorts, and more for badly cured vanilla, for which, no matter how marketed, the outlet is becoming more and more restricted.

International Opium Conference.

(From Our Special Correspondent.)

AT the opening of the session on Tuesday, June 23, the Dutch delegate announced that the Bill approving of the Opium Convention of January 23, 1912, had passed the First Chamber of the States-General and had also been signed by the Queen, so that the Convention will shortly be ratified by the Dutch Government. In the name of the Drafting Committee Mr. C. Th. van Deventer read and explained a new rendering of the Chinese-British proposal to put the Convention into action at an earlier date than December 31, 1914, if possible. After discussion the proposal was accepted by the Conference in its new terms. The conclusions arrived at are as follows:

A. The Conference believes:

(1) That it is possible to put the Convention into force, notwithstanding the fact that some Powers which were invited to sign the Convention in compliance with Art. 23 have not done so.

(2) That the Convention will be put into force by all the Powers which have signed it as soon as these Powers and those which have made known their intention to participate will have ratified it. The date on which the Convention will be put into force will be that which is mentioned in Art. 24—that is, three months after the date on which the Dutch Government will have communicated to the participating Powers the receipt of the last ratification.

(3) That if on an earlier date to be fixed by the Conference all the Powers which have signed the Convention or intend to do so have not yet ratified it, the participating Powers which have ratified the Convention on that date will be authorised to put it into force. The same competence will be granted to the participating Powers which will ratify the Convention after that date.

(4) That the date mentioned will be December 31, 1914.

(5) That the Powers which have not yet signed the Convention will always be allowed to do so.

B. The Conference concludes that at the Foreign Office at The Hague a separate Protocol will be drawn up by which the Powers which have signed the Convention and want to make use of it will make known their intention to do so. The final Protocol will be drawn up by the Drafting Committee and be submitted to the judgment of the Conference at the meeting on Wednesday, June 24.

At the closing session on Thursday, June 25, the Dutch Minister of Foreign Affairs was officially invited to urge the Powers which had abstained from signing to participate. The Swiss and American delegates made speeches in which they paid a graceful tribute to the Queen, the Dutch Government, and the Executive of the Conference. The Persian delegate (Mirzakhani) announced that his Government had just ratified the Convention. Subsequently the Dutch delegate, Mr. J. T. Cremer (President of the Conference), in the course of his closing speech, said that the moment had arrived for the signatory Powers to continue by internal legislation "the philanthropic combat against the products which envenom nations."

M. Loudon, Dutch Minister for Foreign Affairs, and Honorary President, after having notified the signature by Greece without any reservation in respect of annexed territory, emphasised the moral bearing of the Conference, which he congratulated on the measure of success which had been obtained. He promised to take steps to obtain the desired ratifications, and to urge those Powers which had not signed to do so. He then declared the Conference closed. A telegram of congratulation with thanks for hospitality was sent to H.M. the Queen, and the delegates were subsequently entertained to lunch by Mr. van Deventer.

Ground White Pepper.

Decision under the Sale of Food and Drugs Act, 1875, Section 6, by the Recorder of Blackburn in favour of the appellants (Messrs. Stafford Allen & Co., Ltd.).

IN THE CHEMIST AND DRUGGIST, April 11 and 18, was reported the hearing by Mr. W. M. Mattinson, K.C., the Recorder of Blackburn, at the Quarter Sessions there, of an appeal by Messrs. Stafford Allen & Co., Ltd., London, against a decision of the Borough Magistrates in fining them 20s. and costs for selling white pepper "not of the nature, substance, and quality" demanded, in so far as the public analyst (Mr. W. H. Roberts, M.Sc., F.I.C.) reported that it contained not less than 10 per cent. of husks. Taylor's Drug Stores, Ltd., were the original defendants, but Messrs. Allen, as the suppliers, took the burden of the defence. At the first hearing by the Magistrates (*C. & D.*, November 15, 1913, p. 56) it was decided to send the reserved sample to the Government laboratory, and the report submitted at the second hearing was to the effect that the crude fibre amounted to 7.5 per cent. (*C. & D.*, December 27, 1913, p. 86). The Magistrates convicted, and the defendants appealed. Mr. W. S. Glyn-Jones, M.P., and Mr. Lindon Riley represented the appellants at the Quarter Sessions, and Mr. Merriman and Mr. Harold Derbyshire appeared for the respondent, Dr. J. Coote Hibbert, M.O.H.

The learned Recorder then heard evidence for the prosecution by Mr. H. E. Gresham, B.Sc., Dr. J. C. Hibbert, Mr. W. H. Roberts, M.Sc., Mr. Collingwood Williams, F.I.C., Mr. George Stubbs, F.I.C., Government analyst, and Mr. Charles Clarke, spice-manufacturer. For the defence Mr. E. J. Parry, B.Sc., Dr. F. L. Teed, F.I.C., Mr. John Evans, F.I.C., and Mr. John Hobbs gave evidence. Counsel addressed the Court and at the end of two days the Recorder reserved judgment (see *C. & D.*, April 11, p. 43, and April 18, p. 40). Mr. Mattinson delivered judgment at Blackburn on Tuesday, June 30, in the following terms:

After reciting the facts of the case, the Recorder said: It is true that Section 6 of the Act of 1875 requires to justify a conviction that the sale should be to the prejudice of the purchaser, but it is now settled that a purchase was none the less to the prejudice of the purchaser though it might have been merely with a view to legal proceedings, and without any intention of the commodity being consumed in the ordinary way by the purchaser. Upon the purchase in August the specific demand was for white pepper, and the price paid to the retailer was at the rate of 1s. 6d. per lb.—the full price of good-quality white pepper. Samples were taken and submitted to analysis. The certificate of Mr. Roberts, borough analyst, certified that in the sample there was over 10 per cent. of a foreign ingredient—viz., pepper-husks—whereupon proceedings were instituted by Dr. Hibbert, medical officer, now respondent to the appeal. Evidence was given at length before him regarding the production and manufacture of white pepper and the difference between white pepper and black pepper. Up to a point there was little, if any, difference between the evidence of respondent's witnesses and that of witnesses for appellants. All the pepper is manufactured from the natural black berry, which is grown largely at Penang, Singapore, and Siam. Black ground pepper is merely the black berry as it leaves the bush, with its pericarp or husk intact, and in that condition ground to a fine powder. The result is a pepper not exactly black, but of varying hues of darkness, though it is described as "black pepper." White ground pepper is also derived from the natural black berry—usually from a somewhat riper berry—and before it is ground the pericarp or husk is as far as possible removed, so that what is ground to powder is the berry *minus* the husk. While, theoretically, white pepper should be free from husk, respondent's counsel admitted it is impossible in commercial white pepper to get entire immunity from husk. Up to 2 per cent., or a trifle more, it is conceded that an admixture of husk may be permissible. There is some difference of opinion as to how much of the pericarp of the berry constitutes husk, but all the witnesses were agreed that at least the three outer layers of the pericarp are husk and ought, as far as possible, to be removed before the berry is used in the manufacture of white pepper. The essential elements

in pepper, whether black or white, are the same. They consist of piperine, resin, and essential oil. I understand that, unless these constituents are present in certain proportions, we do not have pepper at all but their presence does not determine the difference between white and black pepper. Black and white pepper are, for the purposes of commerce, different articles. White pepper is more costly to manufacture, and is sold at a higher price. It therefore follows that when a purchaser demands white pepper he is entitled to receive that which in commerce is known as white pepper. It is no answer to say that black pepper is as good or better; that is for the purchaser to decide. He is entitled to receive an article which is of the nature, substance, and quality he demanded, and if something else is delivered to him, an offence under the section is committed.

That is a penal proceeding, and it lies upon the prosecution to prove affirmatively that the article is not of the quality, etc., of white pepper. If this is not established to the satisfaction of the Court, if the matter is left in doubt, then the prosecution fails. A portion of the pepper in question was produced in court on the hearing of the appeal. It was not denied that it contained all the essential elements of pepper, and substantially in the proportions in which one would expect to find them. Regarding the appearance, the sample certainly looked like white pepper and appeared not appreciably different from undoubted samples of white pepper. That, however, did not dispose of the case. It would be easy enough, by introducing colouring matter in manufacture, to give an appearance of whiteness to the commodity which would deceive the eye. Respondent said this was what had been done in the present case. Respondent alleged the sample in question was not of the quality, etc., demanded, because it contained more than 10 per cent. of a foreign ingredient—viz., husk. Further, it was alleged that, in order to conceal the dark appearance of the pepper resulting from grinding an excessive proportion of husk, the appellants in the process of manufacture deliberately faced the husks with starch. This was a grave charge of deliberate fraud, and it was made for the first time on the hearing of the appeal. The explanation offered was that the indications in the ground white pepper of this fraudulent facing of the husks were only discovered some time after the hearing before the Justices in December. I am bound to approach this additional evidence with great caution. It is obviously a serious deduction from the weight to be attached to it that it came at so late a stage in the case. It is difficult to conceive how the facts now alleged escaped the earlier investigations, unless it be that the traces of starched facings were, in fact, slight and ambiguous. It has further to be observed that respondent was unable to suggest how the appellants would, in the process of manufacture, have faced the husks with starch. The act alleged does not correspond to any known form of adulteration so far as evidence before me is concerned. On the other hand, I had the evidence of Mr. Parry and Dr. Teed, appellants' experts, who did not detect a trace of facing of the kind alleged. They and other witnesses called derided the idea of the possibility of adulteration being carried out in this way. Finally, there was the evidence of Mr. Hobbs, appellants' manager, to the effect that nothing of the kind imputed by witnesses for respondent in fact took place in the process of manufacture. His testimony on this point was not challenged in cross-examination. In this state of the evidence it is obvious the only conclusion at which it is possible for me to arrive is that the respondent has wholly failed to make out the charge that the appellants deliberately faced the husks left in the pepper with starch or anything else.

A more difficult question remains for consideration. Though appellants might not have actively adulterated the pepper in the way discussed, or in some other way, if they failed in the course of manufacture, even as the result of carelessness, to remove a sufficient quantity of the husk, it might well be that the article they sold was substantially black pepper, and not white pepper, and that the offence charged was committed. I entirely agree with the opinion expressed by the Justices in the court below, that if, through insufficient decortication, or from any other cause, the appellants allowed an undue quantity of husk to remain, they were guilty of adulteration. There can be no difference of opinion as to the law. The difficulty is in the application of the law to the facts. It was stated that there is no accepted standard of the amount of husk which may be left and the pepper still be white pepper. That being so, each case has to be decided on its own facts. It seems safe to say that at least so much of the husk must be removed as would in the ordinary course—without the intervention of colouring preparation—permit of the black appearance of the pepper being changed into a lighter appearance which

commonly passes as white pepper. It is obvious that to produce this result only a small percentage of husk must be left. It may be that the percentage might be varied according to the meaning placed on the word "husk." If the husk means the three outer layers, which contain nothing of value, it may be that a less percentage is permissible than if the husk left also includes the three inner layers of the pericarp, which do contain constituents of value.

Mr. Roberts had reported that the pepper contained over 10 per cent. of pepper-husk. That is a high percentage, and if it were established appellants would have great difficulty in satisfying him that the article they sold was white pepper. Mr. Roberts, with perfect candour, admitted this, and added that his evidence as to the 10 per cent. was an inference. Both sides were in agreement as to the ability to detect certain small stone-cells contained in the husk under the microscope, and they survived the grinding processes, and that it is a fair deduction from their existence that there is husk in some quantity or other in the pepper. But here the agreement ceased. Mr. Roberts said they could calculate with accuracy the quantity of husk from the number and appearance of the cells. Witnesses for appellants denied that any degree of accuracy is possible—they contended only a very rough approximation. He noticed witnesses for respondent, other than Mr. Roberts, spoke with some hesitancy of the microscopical test. Mr. Williams said it is the best test available, but that it has its limitations. Mr. Stubbs did not adopt this test at all. He confessed that it seemed to him that such a test, while complete up to the point of establishing the existence of the cells, and so the fact of the presence of some husk, is open to some doubt when we attempt to deduce from it anything like exact proportions. The view advanced by the witnesses for the appellants was, in his opinion, the sounder view. His doubt on this point was justified by evidence called for the respondent. Mr. Roberts put the husk at over 10 per cent., while Mr. Williams put the quantity at over 6 per cent.—obviously a material difference in the case of a test for which accuracy is claimed. Of course, if Mr. Williams's opinion was that at best this test is only an approximate one, and that 4 per cent. or 5 per cent. of husks do not matter, I can understand why he did not further pursue his investigation; but that opinion would bring him in line with witnesses for appellants, and would make him rather a witness for the defence than for the prosecution. In my opinion, the weight of evidence is rather with the appellants than respondent. I do not question the entire good faith of the evidence which Mr. Roberts gave. He convinced himself that there was some 10 per cent. of husk in the sample, but he had done so by a method of deduction which was open to the possibility of considerable error. I cannot convict the appellants on what, so far as this case is concerned, is practically the sole testimony of Mr. Roberts, especially in face of the strong evidence to the contrary by gentlemen of the competence of Mr. Parry and Dr. Teed. The respondent did not merely rely upon microscopical test. He said there was an excessive quantity of woody fibre in the sample, which was evidence of an excessive quantity of pepper-husk. A limited quantity of woody fibre is innocuous, and up to 8 per cent. is permissible in white pepper. The quantity found in this sample was under 8 per cent; therefore it would be difficult to make out a case of adulteration by woody fibre pure and simple. Fibre may be due to husks, and it may also be due to other causes. Appellants said it is due to the process of sifting or grading which they employ to produce white peppers of different tints to suit the requirements of the public. Nothing had been proved reflecting upon the methods employed by appellants. Appellants produced their grades by sifting, which varies the amount of starch in the pepper at the expense of the fibre, or *vice versa*, but the essential constituents are not affected.

The result of the whole evidence, to my mind, is that, while husk in an appreciable quantity is present in the sample, the evidence failed to prove in what quantity it was there. The appellants cannot be convicted merely because there were traces of pepper-husk. I must be satisfied it was there in quantities so considerable as to change the character of the pepper from white pepper to black, or at any rate to prevent it being properly described as of the nature, substance, and quality of white pepper. Upon the evidence before me I cannot say this is proved, and as the respondent has failed in discharging the burden of proof which is upon him, the appeal must be allowed, with costs.

THE "MEDICAL JOURNAL OF AUSTRALIA" will be published on July 4 as the organ and the property of the Australasian Medical Publishing Co., Ltd., which is virtually the Australian branches of the British Medical Association.

PERSONALITIES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

MR. W. J. CLARKE, dispenser at the Camberwell Infirmary, has resigned his position.

MR. J. J. SHAWYER, chemist and druggist, Swindon, is one of the new Magistrates for Wiltshire.

MR. G. E. GULLIVER, Ph.C., of Messrs. Simpson & Devonport, Melbourne, is now on a visit to this country.

MR. J. V. MAINPRIZE, son of Alderman Mainprize, J.P., of Bridlington, has passed the first examination for the M.B., Ch.B. (Sheffield).

MR. J. B. FRANCIS, of Wrexham, is, we understand, making a very good recovery in the bracing air of Buxton, where he and Mrs. Francis are at present residing.

MR. W. SHAKESPEAR, Ph.C., has resigned his management with Messrs. Hedges, Birmingham, and is devoting his attention to the directorship of A. Edmonds & Co., Ltd., shopfitters.

DR. B. H. PAUL made one of his rare visits to the City this week, and looked hale and hearty, considering that he is eighty-seven. He takes unabated interest in the questions of the day, philosophical as well as political.

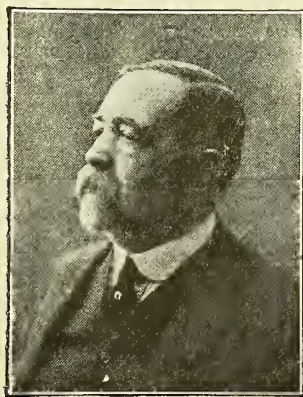
MR. GEORGE PLEASANCE, of 275 Chapel Street, Prahran, Melbourne, is now visiting England along with Mrs. Pleasance and two of their children. They hope to attend the British Pharmaceutical Conference at Chester.

COUNCILLOR T. L. HOLLELY, Ph.C., ex-Mayor of Retford, and Chairman of the Hospital Committee, was presented to the King and Queen at Retford on June 26. Mr. Hollely commenced his pharmaceutical career in Sheffield with the late Mr. W. Ward.

MR. H. IDRIS BELL, M.A. (Oxon.), of the British Museum (son of Mr. C. C. Bell, chemist, late of Epworth), was last week elected a member of the Council of the Society for the Promotion of Hellenic Studies. Mr. Bell has also recently been elected to the Council of the Bangor Welsh MSS. Society.

MR. S. ADAMSON, L.P.S.I., has, with his wife and family, returned from Queensland, to settle down at home. They went out a little over four years ago, Mr. Adamson having for some time been associated with the business of Messrs. Ayrton, Saunders & Co., Ltd., Liverpool, as a director. At Brisbane Mr. Adamson took a financial and management interest in the business of Messrs. Thomasson & Chater, Ltd., which business was transferred to Messrs. Taylor & Colledge, Ltd., last November. Since then Mr. and Mrs. Adamson have lost by death the son, aged fourteen, on account of whose health they went out to Australia.

SIR JAMES HORLICK, BART., D.L., J.P., of 2 Carlton House Terrace, S.W., Cowley Manor, Gloucestershire,



SIR JAMES HORLICK, BART.

and West Dean, Gloucestershire, whose baronetcy was referred to in the *C. & D.* last week, was born in Gloucestershire in 1844, and for the last twenty years has resided in that county. He is president of Horlick's Malted Milk Co., who have factories in England, Canada, and the United States and a business organisation extending into practically every country in the world. Sir James spent some years in America, but now visits it occasionally only, and his eldest son (Mr. Ernest Horlick) is his right-hand man in the English business.

MR. D. M. LAIDLAW, chemist and optician, Basingstoke, has received a cheque for 3*l.* 16*s.* 9*d.* from the Oatine Co., being half the amount of the prizes won by a customer of his in the Oatine word-making competition.

MR. H. H. WHYTE, general sales manager for the H. K. Mulford Co., pharmaceutical and biological chemists, Philadelphia, U.S.A., is now visiting the Old Country. Mr. Whyte served his apprenticeship in Brechin, and also had experience in Edinburgh pharmacy before going out to Canada twenty years ago. During the past dozen years he has been with the Philadelphia company, and his present visit is in connection with their British branch.

MR. JOHN W. RICHARDS, chemist and druggist, Tonypany, Rhondda Valley, has been appointed a Magistrate for the County of Glamorgan.—Mr. Samuel Williams, Pontardulais, Glam., founder of the Pontardulais Chemical Co., and Mr. John Williams, secretary of the company, have also been appointed J.P.s.—Councillor W. Briggs, Mayor of Lancaster, and Councillor Edward Cardwell, an ex-Mayor of the borough, and both pharmacists (retired), have been appointed Justices of the Peace of the County Palatine of Lancaster.—Councillor Henry M. Lloyd, J.P., M.P.S., Mayor of Merthyr Tydfil, was, at the Petty Sessional Court last week, sworn to the ancient office of High Constable of the Hundred of Caerphilly.

IN the Scottish news of *THE CHEMIST AND DRUGGIST* on June 27 the latest honour conferred upon Surgeon-General Babbie, V.C., etc., was mentioned, and incidentally reference was made to his father, Mr. John Babbie, J.P., Ph.C., Dumbarton. It was then stated, on the authority of the current register of pharmaceutical chemists, that Mr. Babbie was the oldest of that class in Scotland save one—



MR. JOHN BABTIE, J.P.

Mr. Thomas Cochrane, Falkirk; but the distinction really belongs to Mr. Babbie, for we have since learnt that Mr. Cochrane's name should not be on the register, as he died twelve years ago (*C. & D.*, March 8, 1902, p. 405), at the age of eighty-three. There should be no further hesitation on the part of the Registrar in removing the name from the registers. Mr. Babbie, like his father, is a native of Dumbarton, and was educated in the Burgh Academy there, after which he was apprenticed to the late J. F. Harvey, of the Apothecaries' Hall, High Street, Dumbarton, and he succeeded to that business "at a perilously early age," he once remarked. Day in and day out since then Mr. Babbie has carried on business in the same shop, and he still attends to it daily. He has never taken any part in the Pharmaceutical Society's affairs in Scotland, for although nominated on several occasions for the old Council, he always declined. On the other hand, he has taken an active part in the municipal affairs of his native town, having been a member of the Town Council for nineteen years, and in thirteen of these he was Provost of the Burgh. On retiring his services were handsomely recognised by his townsmen, who in addition to other gifts placed a marble bust of him by Stevenson, A.R.A., in the Burgh Hall. Mr. Babbie is the oldest living Justice of the Peace for Dumbartonshire, and was also for many years a Commissioner of Income-tax for the western division of the county. In his early days he did something to promote amateur athletics, and that the feeling for such things still remains is shown by the fact that last month he acted as commodore at the local regatta and also presented the prizes at the annual meeting of the County Bowling Association.

SUMMER OUTINGS.

"Square" Students on a Herb-farm.

IN accordance with their usual custom, a few days before the July examinations the students of the School of Pharmacy, Bloomsbury Square, accompanied by Professor Greenish, paid their annual visit to Messrs. Potter & Clarke's herb-farm at Carshalton. They were met at the farm by Mr. R. W. Wren and Mr. J. B. Smith, and had every opportunity of studying the various herbs, their cultivation, collection, and methods of drying. The students were afterwards entertained to tea at the Greyhound Hotel, when a vote of thanks to Messrs. Potter & Clarke was proposed by Professor Greenish. [The hosts inform us that the students of to-day are better informed regarding, and are better able to recognise, the various plants in growth than was the case a few years ago.]

Hewlett's Annual Outing.

ON Saturday, June 27, the staff of Messrs. C. J. Hewlett & Son, Ltd., to the number of sixty, journeyed to Hastings by an early train for an outing. Swimming, boating, etc., took up their time until twelve o'clock, when they all sat down to dinner at the Waverley Hotel. Mr. Vivian C. Hewlett, Ph.C., occupied the chair, supported by Mr. David MacLeod (representative in India). After the loyal toast had been duly honoured, Mr. W. J. Pile proposed the toast of "The Company," which was received with great cordiality. Mr. Hewlett, in responding, remarked upon the steady progress of the company and the good feeling between the staff and employers. The afternoon was spent in various ways, a cricket-match being one of the interesting features, while some enjoyed a drive out to Battle. After a most enjoyable day the party reached London in excellent spirits about ten o'clock.

Evans Sons Lescher & Webb, London.

THE annual outing of the employés of Messrs. Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London, E.C., took place on June 27 under ideal weather conditions. The party left Liverpool Street Station at 8.37 A.M. for High Beech, Epping Forest. The morning was devoted to sports, the principal item being the departmental relay-race, for which the directors of the company have given a challenge cup. The trophy was won by the wet-room team, who were also the successful competitors last year. Luncheon was served at 1.30, the party doing full justice to the excellent repast provided at the King's Oak Hotel. The toast of "The Company" was proposed by Mr. C. Andersen, and responded to by Mr. S. F. Webb in a very witty speech. A two-hours' drive through the forest filled in the afternoon, and was followed by tea at the hotel at 5 P.M. A concert in the evening made a most enjoyable ending to the day, and the return journey from Chingford Station was commenced at 10.25 P.M.

From Far and Near.

THE employés of Messrs. Robinson & Sons, Ltd., lint and box manufacturers, Wheat Bridge Mills, Chesterfield, held their annual excursion to Blackpool on June 29.

MESSRS. BOORS' Sheffield Staff Recreation Club held their annual outing on Thursday, June 25, a party of thirty-eight proceeding by motor *char-à-banc* to Matlock, *via* Froggatt Edge and Bakewell. Tea was served at Sheffield House, after which the various attractions of Matlock, including the caves and petrifying-wells, were visited. The return journey was made by Chatsworth.

THE forty-sixth annual excursion of the employés of Messrs. Howards & Sons, Ltd., Ilford, Essex, took place on June 20 at Hunstanton. A special train conveyed the 700 excursionists from Ilford, and a most enjoyable day was spent. The staff and their wives were entertained at luncheon at Sandringham Hotel, Mr. Alfred G. Howard being in the chair and Mr. Claude F. Howard in the vice-chair. At the end of the luncheon, Mr. T. G. Rees proposed a vote of thanks to the firm for providing and financing the outing. The special train left Hunstanton at 7.30 P.M., the party arriving at Ilford at 10.30.

THE sixteenth annual picnic of the employés of Messrs. Duncan, Flockhart & Co., 104 South Canongate, Edinburgh, took place on Saturday, June 27. A party of 140 left the works in large motor *chars-à-bancs* for North Berwick, *via* Musselburgh. They had a very enjoyable run, and on arriving some time to spare before twelve o'clock, when they had dinner in the Oddfellows' Hall, after which the afternoon was spent in divers manners. One party had a

run in a motor *char-à-banc* to Whitekirk, and visited the ruins of the church recently burnt by Suffragettes. All the company had tea in the Oddfellows' Hall; then the younger members of the party had a dance, and at 6.45 the return journey was commenced, the route this time being by Dirleton, Drem, and Longniddry, Edinburgh being reached shortly before nine o'clock.

THE employés of Messrs. Ford, Shapland & Co., chemists' printers, High Holborn, held their fifty-eighth annual outing on June 27, journeying to Eastbourne. Dinner was served at the Royal Hotel. Toasts were honoured, pleasing music was given by Mr. E. R. Maekay, and an entertaining recitation by Mr. A. Roebuck. Mr. H. Courtier, in replying to the toast of "The Firm" (proposed by Mr. A. Roebuck), reviewed the work of the past year, referring to the success that the firm had enjoyed as "Printers for Particular People." Mr. H. M. Heywood also acknowledged, being received with applause, as also was the name of Mr. R. Jackson, another partner, who was unable to be present. The toast of "The Representatives" was replied to by Mr. Lewis and Mr. Wm. Parker. During the afternoon Mr. Courtier provided a thrill by making an ascent in a hydroplane. The outing was most successful, thanks to the admirable arrangements of the stewards, Messrs. H. Briggs and W. H. Cotter.

Chemists' Associations.

PORTSMOUTH pharmacists took advantage of the opportunity of the King's Birthday holiday by arranging a delightful outing, a party of thirty ladies and gentlemen, which included Mr. C. H. Baker (President), Mr. T. O. Barlow (Vice-President), and Mr. A. B. Sparrow (Secretary), making a tour of the Sussex Downs by motor *char-à-banc*. The outward journey was through Havant and Chichester to Arundel, where they lunched. Afterwards the company divided into two groups, one visiting the Castle keep and dairies, and the other rambling through the extensive park. Continuing the journey through Petworth, a halt was made at Cowdray Castle, and a pleasant time spent among the ruins. Tea was taken at Midhurst, where Mr. C. H. Bowyer, the local pharmacist, presented each member with a copy of his "Snapshots of Midhurst." The route home was by Petersfield and Butser Hill. The credit for the success of the outing is due to Mr. Sparrow.

THE members of the Aberdeen Pharmaceutical Association on June 24 joined the Wednesday Speyside excursion at 1 P.M. *en route* for Grantown. The Great North of Scotland Railway Co.'s newest type of bogie corridor carriage was reserved for the company, which numbered forty-eight. A splendid run landed the party at Grantown at 3.15 P.M., where they were met by Messrs. Kerr and Watson, the local chemists, under whose guidance they were piloted through the village to Castle Grant. Entering the grounds and passing along the drive to the Castle, the depredations of the sharp frosts that occurred in the late spring were seen in the scorched brown leaves hanging dead on the beech-trees lining the avenues; not one tree seemed to have escaped. Admission was given to the castle, and after inspecting it the company was photographed on the steps outside. On returning to the village the company dined in the Palace Hotel, Mr. Reith (President) being in the chair, and in a short speech he thanked the local chemists for their kindness. Mr. Kerr replied. At 8.15 P.M. the party left Grantown, reaching the Granite City at 10.30, everyone thoroughly pleased with the outing.

THE members of the Wolverhampton Chemists' Association and friends (including the Mayor and Mayoress) had their annual outing on June 25 to Leamington. They were met at Leamington by the President, Secretary, and other members of the Leamington Association, who escorted the party to the Pump Rooms, where they were officially welcomed by the Deputy-Mayor (Dr. Mason) and Alderman Holt. The baths were then inspected, great interest being taken in the x-ray rooms. Afternoon tea was served in the annexe, after which the party divided, some going to Warwick by train, and others to the Jephson Gardens. At 5.45 P.M. all met at the Crown Hotel, where a substantial tea was partaken of, after which the President (Mr. E. E. Hall) welcomed the visitors. The Mayor, in responding, expressed the pleasure of the Mayoress and himself in being present. The Presidents of the Birmingham and Leamington Associations and the Secretary of the Walsall Association also spoke. A walk through the gardens was just managed before the return journey was undertaken, and Wolverhampton was reached about 8.30 P.M., after a very enjoyable day. The Association wishes to thank the members of the Leamington and Warwick Association, whose efforts for the enjoyment of the visitors so largely contributed to the pleasure of the visit.

THE North London Pharmacists' Association had their summer outing on June 25. Two motor *char-à-bancs* were chartered to convey a party of fifty-nine to Burford Bridge, at the foot of Box Hill, in the heart of the Surrey Downs, redolent of interest to every lover of George Meredith. From St. Padarn's Hall, in North London, the party were piloted through Hammersmith and Putney, and thence past Ewell, Epsom, and Leatherhead, arriving at their destination soon after four. Some took tea, and others played bowls. Before dinner several photographs were taken as souvenirs of the occasion. The weather was so delightful that the formalities of dinner were quickly got through and the complimentary speeches much abbreviated. The party then in groups made for the top of the hill; some enjoyed the view, and others indulged in amusements provided for visitors. The return was made at 8.30 by a slightly different route, the journey proving most delightful in the cool of the evening. Great enthusiasm was shown in the thanks accorded to Mr. H. G. Mumford, who had been the organiser-in-chief of the excursion.

* * Owing to exceptional pressure on our space this week, we are unable to include reproductions of photographic groups of some of the parties who have been enjoying themselves

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of the seven Chemists' Societies in British South Africa.

Cape Province.

MR. A. PALMER has purchased the business of Mr. A. Macklin at Oudtshoorn.

SALE OF POISON.—Mr. Mortimer A. L. Tothill, Cape Town, was at the Police Court on May 19 charged with selling ant-poison without registering the sale in the poison-book. A woman named Williams stated that she bought the poison from Mr. Tothill, and told him it was for killing ants, but really she had intended committing suicide. Her husband found she had the poison, and he informed the police. The assistant Government analyst gave evidence as to the composition of the ant-poison, and defendant said that he did not remember selling any ant-poison to the witness Williams. The label on the bottle was his, but he could not swear to the bottle. The Magistrate found the defendant guilty of selling the ant-poison, but as the Public Prosecutor did not press for a penalty Mr. Tothill was reprimanded, and the summons dismissed.

O.F.S. Medical and Pharmacy Council.

AN emergency meeting was held at Bloemfontein on May 29 to consider the provisions of a draft Bill forwarded by the Secretary of the Interior for the consideration of the Council as it is intended to introduce it during the present Session of the Union Parliament. The following members were present: The President (Dr. A. B. Ward), Drs. S. M. de Kock, S. G. Friedmann, J. C. Pretorius, and D. M. Tomory, Mr. E. Whiteside (dental member), and Mr. S. S. Hewitt (pharmaceutical member). The letter from the Secretary for the Interior forwarding the Bill was read. So far as it affects chemists and druggists it reads as follows:

"... it was decided by the Minister of the Interior that it would be advisable to take advantage of the opportunity which thus offered" (namely, a resolution in regard to the qualifications entitling medical practitioners and dentists to registration) "for passing legislation to remedy the position under which medical practitioners, dentists, and chemists and druggists have since the Union been limited in their practice to the respective provinces in which they are registered, and to provide that licences already issued in any province should confer on their holders the right to practise in future in any part of the Union."

Following on this it will be necessary to provide for registrations for the Union in future in the case of new applicants, and the procedure to be adopted in this and in other respects is indicated in the accompanying draft Bill, which I am enclosing for your information.

In order to secure uniformity in the matter of the registration of chemists and druggists by virtue of the possession of a certificate issued in South Africa by one or other of the Pharmacy Councils or Boards which are empowered to

conduct examinations, it becomes necessary to amend the law in force in the Free State to bring the requirements hitherto in force in that Province into line with those in force in the other three Provinces, and to provide in future that a period of four years' apprenticeship or practical experience, instead of three years, be laid down."

The provisions of the draft Bill particularly referred to in the above extract were duly agreed to. If the Bill is passed, registration will in future be effected by the Minister of the Interior on the recommendation of a Council or Board, and will entitle the person registered to practise in any part of the Union, the registration-fee in the case of chemists and druggists being fixed at 5*l*.

Section 3 of the draft Bill enables the Governor-General to prescribe in the "Gazette" any certificates, degrees, or diplomas which will enable the holders to obtain registration. It was pointed out by Mr. Hewitt that the subsection requiring reciprocity as regards the United Kingdom in the case of diplomas obtained in a foreign or colonial country was only applicable to medical practitioners and dentists, and that it did not apply to foreign or colonial diplomas submitted by applicants for registration as chemists and druggists. He strongly urged that, as chemists and druggists are trained and qualified by examination in all four Provinces of the Union, there was no need for any South African to proceed outside the Union to qualify, as there was in the case of medical practitioners and dentists. It was therefore resolved that it be recommended that the reference to chemists and druggists be eliminated from the section, as the existing laws provide all that is required.

In the course of the discussion of Section 10 of the draft Bill it was pointed out by Mr. Hewitt that members of this Council receive no payment for their services, and it was resolved that a recommendation be forwarded to the effect that the fees payable to members of the Councils and Boards be rendered uniform throughout the Union. A resolution was passed, after the termination of the discussion of the terms of the Bill, strongly urging the Government to abolish the annual mines fee of 10*l*. payable by chemists and druggists in this Province.

TRADE-MARKS.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1914, p. 237.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for 1*s*) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(From the "Trade-marks Journal," June 10, 1914.)

"CARLAX"; for all goods (3). By Parke, Davis & Co., 50-54 Beak Street, London, W. 360,783.

"WENO"; for fatty substances for making toilet-articles (4). By S. Smith, 132 High Street, Tonbridge. 360,921.

"RAINBOW"; for powder-puffs (48). By H. Nickel & Co., 101-105 Goswell Road, London, E.C. 359,946.

"FREKOFF"; for all goods (48). By G. R. Newton & Co., 98 Woodhouse Street, Leeds. 360,482.

"ROULETTE"; for all goods (48). By Oja Aktiengesellschaft, Leipzigerstrasse 113, Berlin. 360,485.

"CONNOISSEUR"; for perfumery, etc. (48). By C. Thomas & Bros., Ltd., Broad Plain Soapworks, Bristol. 360,519.

"THE LADY BLESSINGTON," for a complexion-preparation (48); "COUNT D'ORSAY," for a toilet-powder (48). By T. Walton & Co., 53 Fleet Street, London, E.C. 360,619/20.

"CAJOLERIE"; for perfumery, etc. (48). By the Crown Perfumery Co., Sidney Road, Homerton, London, N.E. 360,827.

"KRISHNA"; for perfumery, etc. (48). By the Erasmic Co., Ltd., Warrington. 360,951.

Oval device of word "MONOGRAM," and monogram "U.D.Co." ("Monogram" disclaimed); for brushes, combs, etc. (50). By United Drug Co., 114 Oldhall Street, Liverpool. 360,681.

(From the "Trade-marks Journal," June 17, 1914.)

"MIRRORLINE," "PREMITON," "DOUTON," and "OXYDOL"; for goods (1). By W. T. Bigsby & Sons, Mitcham. 358,907, 360,366/368/371.

"ORBITE"; for all goods (2). By Kay Bros., Ltd., Stockport. 360,514.



Memoranda for Correspondents.

- All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.
- Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.
- Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.
- Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Drug-Tariff Reform.

SIR,—Referring to my letter on above subject in your issue of June 13, I again beg the favour of a small portion of your space to reply to criticisms by correspondents in your issues of June 20 and 27. "Mortar" was quite right in his criticism of my method and figures, and therefore he owed me no apology. I agree with him when he says that 50 per cent. added to cost of the avoirdupois ounce would be a nearer approximation than the $\frac{7}{16}$. Several correspondents seem to think that our being done out of some 6½ per cent. is only a very trifling matter. Now, with this opinion I differ *in toto*. Mr. Roberts in your issue of June 20 states that I have ignored one vital point—viz., to get the drachm price we divide by 7, and not by 8. In reply to this I say that I did not ignore the small quantities under two drachms, simply because if the ounce quantity prices were correct, and seeing that the prices for smaller quantities are obtained from the ounce price, then both would be quite in order. What I say is, Let us have the ounce price corrected, then the drachm and smaller quantities will be in harmony with the whole. I quite agree with Mr. Roberts that the bulk of drugs bought in ounce quantities is sold in quantities of two drachms or under, but not always under two drachms, as he suggests. His example of a drug costing 5s. per oz. is all right till he proceeds to tell us that we get 7s. for 437.5 grains. Here he confuses the 480-grain ounce with the 437½-grain. This is the cause of so many saying that the profit is greater than it really is. Do not forget that the 7s. is for 480 grains, and not for 437.5 grains. The price allowed us for one drachm is 1s., but the price for 437.5 grains is only 6s. 4½d., and not 7s. 3½d. as Mr. Roberts attempts to prove. The profit on this ounce, then, of 7s. $\frac{7}{16}$ drachms is exactly 27.6 per cent., and not 46 per cent. Mr. Roberts will admit that this is considerably less than 33½, to which we are entitled. Mr. Denton thinks the $\frac{1}{16}$ fraction is a saving in time. I cannot see much advantage it has in this respect over the $\frac{7}{16}$ fraction, and the latter has the advantage of giving us the correct proportion of profit and is in harmony with the principle so often quoted, "The smaller the quantity, the greater the percentage of profit." "C. P." thinks that percentage should be calculated on returns, and not on outlay. But in all standard authorities percentage is calculated on cost-price, and if we know the latter we can easily ascertain the former. "C. P." will find that if he has 31½ per cent. profit, and deducts 10 per cent. from this, it leaves only 18½ per cent. of profit, not 21½ per cent. To sum up, then, and with the proviso that my figures are subject to correction, our present percentages of profits on the solids are:

	Per cent. Profit.
On the 480-gr. ounce, from pound, etc., divided by 11 ...	32.6
On the smaller quantities 480-gr. ounce, being cost of avoirdupois ounce + $\frac{7}{16}$ of same ...	27.6
On quantities drachm to two drachms ...	45.8
On the grain quantities ...	74.9
By adding $\frac{7}{16}$ instead of $\frac{1}{16}$ to cost of the avoirdupois ounce we should receive for 480 grains ...	33.6
Then our profit on drachm quantities ...	52.7
And on grain quantities... ..	83.2

The $\frac{7}{16}$ would thus fill in the break in continuity caused by the second percentage on the list being less instead of greater than the first. Yours faithfully,
Blyth, June 30. GEO. CORMACK.

Drug-trade Profits.

SIR,—Jay Mack's letters, always interesting, do not appear to touch upon one phase of the drug-trade situation, and that is the great surplus of individuals—Majors, Minors, Modified, Apothecaries' Hall assistants, army compounders, shorthand-typist and chauffeur dispensers, and unregistered or nondescript persons of all ages and both sexes—who, for good or ill, are engaged, in various capacities, in the occupation of dealing in drugs all over Great Britain at the present day. Accurate bookkeeping is of the utmost importance to those who are out for the purpose of collecting facts, and I am surprised that the Council of the Pharmaceutical Society has not included bookkeeping among the compulsory subjects to be taken in the Preliminary examination. The working-out of a decently passable balance-sheet is of greater importance, when one desires to arrive at the difference between profit and loss, than intimate acquaintance with the binomial question. If I have not misunderstood Jay Mack, he considers that the employment of an assistant entails probable loss to the employer, unless a profit can be shown on the actual result of the labour of the employé. I agree with him. The remedy is obvious: State regulation of pharmacy and the sale of drugs, with one pharmacy only for a given number of people. No conscientious pharmacist can do justice to the supervision of more than one shop at a time. Hence "one pharmacist, one pharmacy." There is a tendency to over-drugging in all classes of society, and the incentive to achieve wealth should be replaced by unflagging zeal in the public service on the part of druggists in general. Then with periodical examinations by the State of persons desiring to engage in the practice of pharmacy (as the need arises), all to pass the same standard test, a class of businesslike, educated, single-minded pharmacists would be available for the purpose of supplying necessary medicines to those for whom drugs had been prescribed by duly qualified medical practitioners. Surely the days in which the average chemist and druggist had to depend upon the morning's takings to pay for his humble chop at dinner have passed for ever, and it is to be hoped that all the grievances arising out of the administration of the National Insurance Act may be met by the inauguration of a State service, coupled with State examinations and State control, for the benefit of all and to the detriment of none.

Yours,

REG. CHEMIST No. 10,321. (245/50.)

Dispensing Difficulties and Notes.

Readers are advised to consult "The Art of Dispensing" in regard to difficulties of compounding. We welcome fresh problems for experiment and elucidation in this column, and invite the co-operation and correspondence of dispensers.

Beta Naphthol and Menthol Pills.

SIR,—I shall be much obliged if you will let me know in the C. & D. the best way to make the following pill:

Beta naphthol,
Menthol,
Ext. valerian. aa. gr. j.

M. Ft. pil. j.

[To make six pills place 6 grains each of beta naphthol and menthol along with 3 grains of white beeswax in a squat cylindrical pill-tube. Stand in hot water till the substances are melted together, then remove from the hot water and hold the tube in a stream of cold water till the mass is chilled and solid. Scrape out the mixture and place in a mortar with 6 grains of extract of valerian and 4 grains of powdered liquorice-root; beat into a mass, roll, and cut into pills. This for an extract of average consistence; if thin, as it sometimes is, a grain or two more liquorice-powder may be required. The pills set and become firm on standing, so it is well not to have the mass very firm before rolling.]

Legal Queries.

The majority of difficulties in regard to trade law are anticipated by the legal information printed in "The Chemist and Druggist Diary," 1914. See especially pp. 459-499.

Junior (12/61).—As a chemist on the dispensing panel, you are quite in order in having a sign over your shop with the words "National Insurance Dispensing."

Jaza (12/62).—It is the custom in the retail drug-trade for employers to pay the wages of chemists' assistants during illness, and a month's notice is also the custom. Both these matters are fully explained in the *C. & D. Diary*, p. 480, under "Assistants."

O. C. (8/7).—All belladonna-plasters are in the second part of the Poisons Schedule. Some unqualified men seem to think that they are outside the schedule consequent upon the wording in the first part; but they are quite wrong, and numerous fines have been paid under the Pharmacy Act by unqualified persons for selling belladonna-plaster. On the sale of any belladonna-plaster other than the British Pharmacopoeia one a statement that it is not B.P. should be made, as the purchaser is entitled to get that.

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

J. E. M. (250/15).—SILVERING MIRRORS.—Particulars of the process of silvering mirrors were last given in the *C. & D.*, November 23, 1912, index folio 799. It is not economical to conduct the process on a small scale.

E. E. (12/57).—THE DESTRUCTION OF ANTS depends upon the location. If the nests can be found, pour a little carbon bisulphide into them, or boiling water, or paraffin oil. If the nests cannot be found, saturate a sponge with a thin syrup of treacle and water containing 10 per cent. of borax. That will attract the ants, and when the sponge is filled they can be destroyed with boiling water.

G. R. T. (248/3).—POLISHING-CLOTH.—The powder with which the polishing-cloth is impregnated appears to be a fine tripoli or kieselguhr. The cloth has been previously saturated with oleic acid, although a bath of soap is more common. The soap solution is sometimes made from oleic acid and ammonia. In place of tripoli, jewellers' rouge or fine emery is often employed.

S. D. S. (91/19).—BOOKS ON COFFEE.—Keable's "Coffee from the Grower to the Consumer" (Pitman, 1s. 6d.); Lock's "Coffee Culture and Commerce" (Spon, 12s. 6d.). Information can also be found in Thorpe's "Dictionary of Applied Chemistry" (Vol. II., p. 97); Allen's "Commercial Organic Analysis" (Vol. VI., pp. 642-680); Tibble's "Food" (pp. 779-819); and Blyth's "Foods: Their Composition and Analysis" (pp. 346-363).

G. E. S. (245/68).—MUSTARD.—For the cultivation of mustard a rather rich, calcareous and damp soil is required. The plant is an annual, and is harvested when most of the pods are mature, but before they are ready to spring open. The tops are cut off and placed on a clean, dry floor to allow them to ripen, when the seeds are separated. The seeds are crushed between rollers and the husks winnowed out. The seeds are then pounded in a mortar and sifted, various "dressings" or siftings being separated. The dressings yield the fixed oil by hydraulic pressure.

Caddick (13/46).—LEATHER-DYEING.—The dressing on the leather is the cause of the unevenness of the dyeing with aniline solutions. A preliminary treatment with benzene or some similar solvent would probably solve your difficulty.

Rep (257/33).—CHEMICAL FIRE-EXTINGUISHERS.—The glass capsule in chemical fire-extinguishers contains sulphuric acid. This is broken by mechanical means, and generates carbonic-acid gas on contact with a solution of sodium carbonate. The water is then through the pressure of the gas ejected forcibly on to the fire after turning on a tap.

F. C. (5/73).—(1) BOOKS ON DISEASES OF THE INTESTINES.—Boas's "Diseases of the Intestines," translated by Basch (21s., 1901); Nothnagel's "Diseases of the Intestines and Peritoneum" (21s., 1907); Kemp's "Diseases of the Stomach, Intestines, and Pancreas" (23s., 1912).—(2) FAT-REDUCING LINIMENT.—Use lin. pot. iodidi cum sapone for this purpose. Direct a piece the size of a nut to be rubbed into the part each night.

Wie (4/17).—WATERPROOFING PROCESSES.—In the absence of any details as to the uses to which the waterproofed material is to be put, we should say that paraffin paper is the cheapest and best waterproof paper and oiled silk the best waterproof silk. Particulars regarding the methods of waterproofing linen were given in the *C. & D.*, October 5, 1912, p. 72.

J. E. (257/15).—COPYING-GRAPH.—We have given several times a formula for the non-gelatinous copying-graph, the last time being *C. & D.*, November 22, 1913, p. 66. We have not had any complaints regarding this formula.

J. B. (258/55).—"ELECTRIC" SNUFF.—This contains acridine, a substance which produces violent sneezing, and the sale of which for this purpose is likely to bring the vendor into conflict with the police.

J. L. G. (1/7).—VETERINARY BOOKS FOR FARMERS' USE.—The following are useful: Hodgins and Haskett, "Diseases of Live Stock" (Baillière, 10s. 6d.); Barton's "Veterinary Manual" (Everett & Co.); Barton's "Stock-owners' Manual" (Everett & Co.); Thompson's "Elementary Veterinary Lectures" (Baillière, 6s.).

W. S. B. (8/27).—REMOVING HENNA-STAIN FROM THE HAIR.—We do not think you will be very successful in attempts to remove henna-dye from the hair, because the dye penetrates the hair and becomes oxidised there. There are several things that might be tried, but as your customer will probably hold you responsible if any untoward effect is produced, we advise you to be careful in recommending any chemical procedure. Frequent washing of the hair with an alkaline shampoo-powder would be a safe suggestion to make.

Turps (8/6).—We cannot find any record of turpentine exerting a solvent action on lead.

R. & P. (4/40).—We do not know the strength of Coult's acetic acid, but have always understood that it approximates that of the British Pharmacopoeia.

B. & B. (9/34).—BOOKS ON THE MANUFACTURE OF ALCOHOL.—Brann's "Practical Treatise on the Distillation and Rectification of Alcohol" (Low, 21s.); Matthews' "Manual of Alcoholic Fermentation" (Arnold, 7s. 6d.); McIntosh's "Industrial Alcohol" (Scott, Greenwood, 7s. 6d.); Wright's "Practical Handbook on the Distillation of Alcohol from Farm Products" (Spon, 4s. 6d.). The subject is also dealt with in Thorpe's "Dictionary of Applied Chemistry."

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," July 15, 1864.

The Davy Memorial.

The inhabitants of Penzance are about to erect a monument to commemorate the services rendered by Sir Humphrey Davy to abstract and practical science. This proposal, which has the support of Lord Brougham, Professors Faraday and Williamson, Sir Charles Lemon, and many other men, eminent alike in literature and science, has been long talked of; but the calls for help consequent upon the Hartley Mine catastrophe, the Lancashire distress, and several local accidents, have deferred its vigorous prosecution. Originally a very elegant monumental tower was proposed to be erected; but in consequence of two ladies offering the sum of 1,000*l.* if the testimonial took the form of almshouses, a memorial of that kind, in conjunction with a statue, has been determined upon. Since that time other sums have been offered, and the Committee have now available funds to the extent of 1,400*l.*, which have been collected, with a total expenditure for incidental expenses of less than 1 per cent. The discoveries of Davy have affected to so great an extent the progress of Pharmaceutical Chemistry, that it may in truth be said that every pharmacist is under the deepest obligations to him. If we judge the chemists and druggists of this country aright, there is so high an appreciation of science and scientific men among them that many of their names will be found in the list of subscribers to the Davy Memorial.

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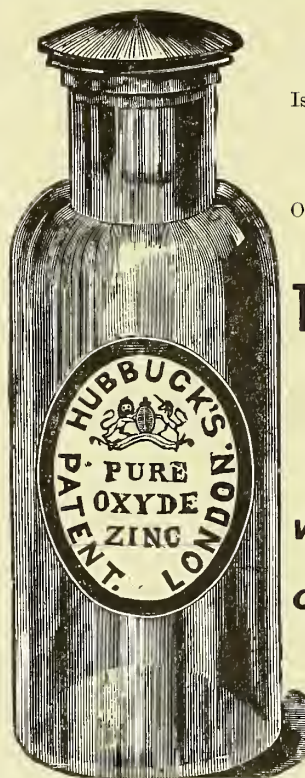
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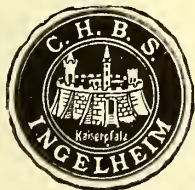
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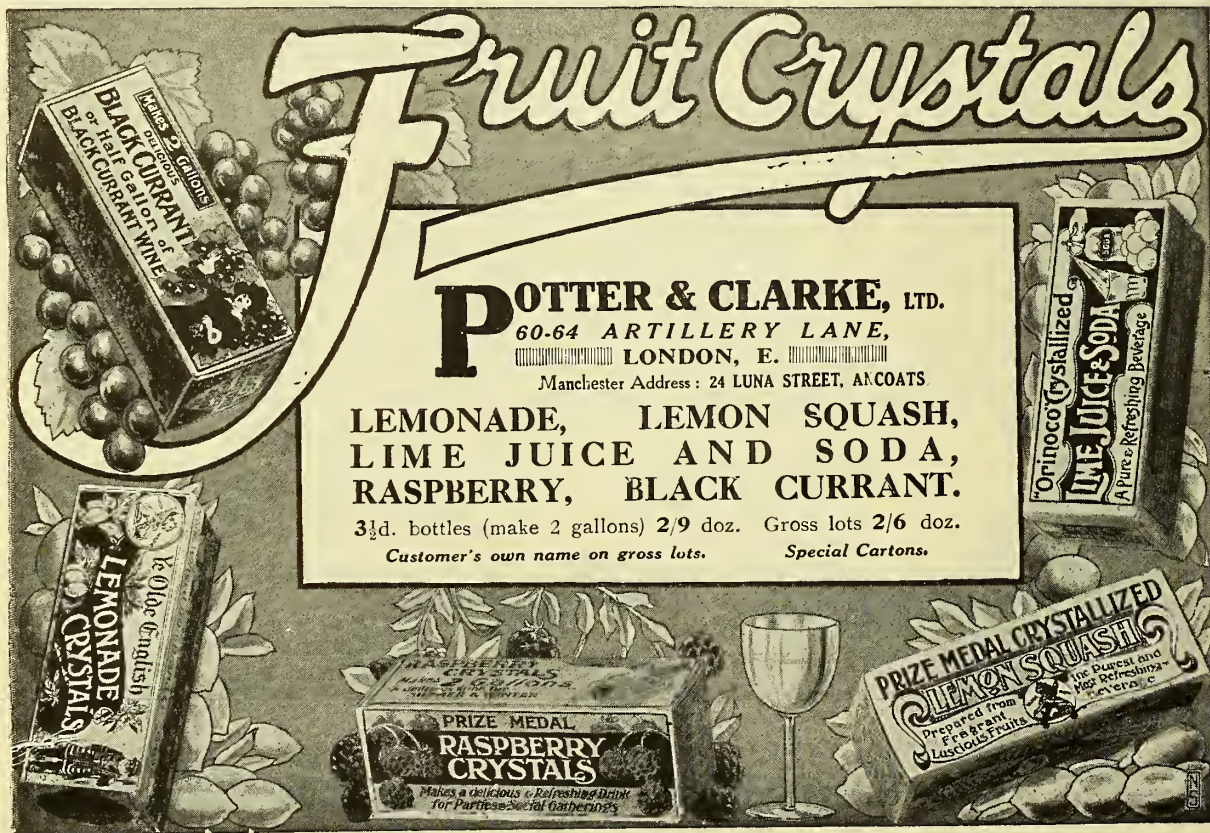
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INDIAN Representative of first-class London Drug house, returning to India shortly, requires first-class Sideliner, Photographer, Perfumery, Optical, or other. 155/56, Office of this Paper.

TWO Manufacturers of Nicotine, Weed-killers, etc.—We want to get in touch with buyers of strong African Tobacco Waste and other in large quantities, also with firms open to act as Agents for our products in Great Britain and the Colonies and in Europe. Apply, 149/40, Office of this Paper.

FOR SALE.

FOR Sale, second-hand, a Cast-iron Montejus, 3,900 litres capacity, enamelled inside, 90 lb. w.p.; Copper Vacuum Pan, 3 ft. 6 in. diameter, with Gunmetal Chain Stirrer, Condenser, and Motor-driven Vacuum Pump; a Dehne Filter Press, 15 chambers, plates 24 in. square; a Cyclone Disintegrator. Apply, Bennett, Sons & Shears, Ltd., Farringdon Works, Shoe Lane, E.C.

FOR Sale in Exeter in one lot; almost sufficient for shop; Dispensing Screen, with Sponge Case and four Glazed Cupboards on Counter; 10-ft. Mahogany Counter, fitted Drawers and five Glazed Cupboards in front; 4-ft. 6-in. Bent-glass Counter Case; Mahogany-framed Mirror, 8 ft. by 3 ft.; about 130 Receptacles Shop-rounds, including Poisons; Cut-glass Counter Jars; cheap. "Chemist," c/o Mr. Reeves, Butterwalk, Totnes.

SECOND-HAND Tape-recording and totalling National Cash Till for Sale; perfect. Write, "W. A.," 78 Mayfield Road, Dalston, N.E.

TO LET.

TAVISTOCK, Devon.—To be let from Michaelmas next, the commodious Shop and Dwelling-house, No. 1 West Street, situate in the centre of the town, and in which for a great many years a Chemist and Druggist business has been carried on. Particulars of Mrs. Tonkin, Spring Hill Villa, Tavistock.

DENTISTS.—To Let, six good Rooms over Shop; best position; in the district; splendid opportunity for smart man; fine site for advertising; rent moderate. Apply, Brodribb, Chemist, 344 Mare Street, Hackney, N.E.

BUSINESSES WANTED.

WELL-ESTABLISHED Retail and Dispensing Business required; under-qualified manager not objected to. Full particulars to 160/2, Office of this Paper.

PARTNERSHIPS.

QUALIFIED Partner, with capital about £500; splendid opening for gentleman possessing energy and enterprise; Retail and Mail Order; one with knowledge Optics and Dentistry preferred. 158/40, Office of this Paper.

TO Chemists.—Wanted, qualified man (as Partner) to act as Manager; seaside. 57230, "Lyn Advertiser" Office, King's Lynn.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

RETAIL.

ASHTON-UNDER-LYNE.—Wanted immediately, qualified Assistant to Manage small Branch, quick Retail, Dispensing; outdoors; comfortable berth to competent man; good salary; no Sunday duty. J. J. Phillips, Ryecroft, Ashton-under-Lyne.

BATH.—Wanted, gentlemanly Assistant, experienced, unqualified, age about 26; must be neat and accurate Dispenser and good Salesman; high-class Store, short hours; weekly half-holiday; no Sunday duties. Apply, with full particulars, references, salary, etc., to Cater, Stoffell & Port, Ltd., Bath.

BEXHILL-ON-SEA.—Wanted in a first-class Pharmacy on the South Coast, a good Assistant; must be a quick and accurate Dispenser with Counter experience. Apply to F. Wimshurst, Pharmaceutical Chemist, Bexhill-on-Sea.

BIRMINGHAM.—Unqualified Assistant wanted about end of July. State salary required and usual particulars, Newey, Chemist, 560 Green Lane, Small Heath.

BLACKPOOL.—Junior Assistant (or Improver) for Light Retail and Dispensing business; must be a capable Counterman, active, willing, and obliging to customers; no Insurance work; weekly half-holiday. Apply, with photo, stating age, salary required (outdoors), Oliver L. Jackson, Pharmacist, North Promenade, Blackpool.

BLACKPOOL.—Qualified Assistant required for July 20; easy hours; comfortable berth. Apply, stating age, salary, and experience, to Fyde Drug Co., 165 Church Street.

BOURNEMOUTH.—Wanted, Junior Assistant, end of July or beginning of August; suit gentleman just finished apprenticeship; state experience, salary required (indoors), enclose photo (which will be returned), and give references; also a Holiday Junior for month of August. Cumber, Chemist, Winton, Bournemouth.

BRADFORD.—Wanted, young, thoroughly up-to-date, energetic, qualified Manager; must be really capable and able to build up a big business in centre of city; salary starting £180. State fully previous experience and send photograph, 17/52, Office of this Paper.

BUXTON, Peak District.—Qualified Assistant, young, outdoors, permanency, for high-class Dispensing business. Full particulars to Pugh, Chemist.

COLWYN BAY.—Assistant wanted, July, August, and September; must have good-class experience, Dispensing, Retail, and Photography. Apply, with photo and references, to Neill, Chemist, Colwyn Bay.

COUNTY COUNCIL OF MIDDLESEX.—Clerk-Dispenser (female) wanted for Tuberculosis Dispensary; salary £80 per annum, rising by annual increments of £10 to £100 per annum; short-hand and typing essential. Applications, marked "Dispenser," stating age, qualifications, and experience with copies of three recent testimonials, to be sent to the undersigned not later than 10 a.m. on Monday, July 13, 1914. Walter Geo. Austin, Clerk of the County Council, Guildhall, Westminster, S.W., July 1, 1914.

DONCASTER.—Qualified Locum required, about July 21, for fortnight, to Manage Branch; short hours; no Sunday duty; one seeking comfortable permanency (which can be arranged shortly after Locum work finishes) preferred. Apply, giving full particulars, references, etc., in first letter, to S. G. Moores, Chemist Department, Co-operative Society, Woodlands, Doncaster.

DOVER.—Alexander Bottle & Co., 37 Town Wall Street, require an experienced Assistant as Junior by July 20. Apply, stating full particulars, together with age, height, and salary required (outdoors), also when disengaged, and enclosing photo (to be returned).

EASTBOURNE.—Improver wanted for high-class Dispensing business. State salary (outdoors), with usual particulars, enclosing carte, to H. R. Browne, Pharmaceutical Chemist, Eastbourne.

GLOUCESTER.—Unqualified Second Assistant; outdoors; good appearance and address; for Light Retail and Dispensing business. State age, height, salary, with photo, Jos. Ward, Pharmaceutical Chemist, Gloucester.

GRAYSHOTT.—Assistant wanted, about 20, used to good-class business, with knowledge of Photography; outdoors; Senior kept; short hours. Please send photo and full particulars to R. C. Harrison, Pharmaceutical Chemist, Grayshott, Surrey. A vacancy also for an Apprentice.

ISLE OF MAN.—Wanted for August unqualified Junior, well up in Photography. Please state terms, etc. (outdoors), to Nappin, Pharmacist, Ramsey.

KING'S COLLEGE HOSPITAL, Denmark Hill, S.E.—Qualified male Assistant Dispenser wanted; salary £100 per annum, with dinner daily. Applications, stating age and experience, with copies of testimonials, to be sent at once to E. B. Fairweather, Dispenser.

LECHLADE-ON-THAMES, Glos.—Wanted, qualified Locum for three or four weeks. Full particulars, salary (indoors), references, to Mrs. G. A. Davis.

LONDON, N.W.—Smart unqualified Junior, age about 23, for high-class Store; permanent and progressive berth for a reliable young man anxious to make his way. "Junior" (16/73), Office of this Paper.

LONDON, N.W.—Part-time; young Assistant required for few half-days weekly; one accustomed to a good-class business preferred. Please state full particulars in first application to "Adalin" (157/2), Office of this Paper.

LONDON, S.E.—Reliable qualified Assistant required (30-45) as soon as possible for permanency; interview preferred. Apply, stating when disengaged, age, salary, and giving references, to Beale & Son, Chemists, South Norwood, S.E.

LONDON, S.E.—Assistance wanted from July 23 to August 23 for evenings, 7 p.m. to 10 p.m., for N.H.I. Dispensing. S. Briggs, 2a Westmoreland Road, S.E.

LONDON, S.E.—Qualified gentleman, about 25 to 30, for Dispensing and Retail; used to good-class trade. State whether married, age, height, salary required, and when disengaged (abstainer preferred), Bailey, 61 Old Dover Road, Blackheath.

LONDON, S.W.—Qualified Assistant required, of good experience and address, as Senior; preference given to one seeking permanency. Brunton & Co., 240 Earl's Court Road, S.W.

LONDON, S.W.—Required, a reliable Assistant for a good-class Dispensing and Retail business; indoors; please give full particulars and if possible enclose photo. Apply. "Dispenser" (157/32), Office of this Paper.

LONDON, W.—Junior for Cash business; used to Dispensing; one other Assistant kept; outdoors. State age, experience, reference, and salary required to Shirliff, Chemist, 66 Goldhawk Road, Shepherd's Bush.

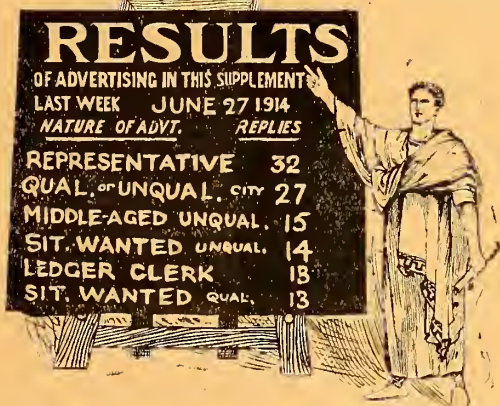
LONDON, W.—Qualified Assistant, with good experience, required at once. Apply, by letter only in first instance, J. Robt. Walker, 36 New Cavendish Street, W.

LONDON, W.—John F. Harrington, 15 Kensington High Street, requires a Junior Assistant immediately. Apply, stating full particulars, together with age, height, and salary required (outdoors), also when disengaged, enclosing photo (to be returned).

LONDON, W.—Wanted at once, qualified Assistant (outdoors) for Dispensing Counter. Apply, stating age, height, salary required, with full details of previous experience, W. Martindale, 10 New Cavendish Street, W.

LONDON, W.—Smart Assistant wanted at once for Counter and Dispensing; a very comfortable berth to the right man. Please give usual particulars in first letter, or call, Maurice Jones, Chemist, 298 Harrow Road, W.

MANCHESTER.—Locum wanted first two weeks in August. Applicants please state terms and references, Jeans, 1 and 3 Broad Street, Pendleton, Manchester.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

MANCHESTER.—Unqualified Assistant or Junior for good-class Retail and Dispensing Suburban business. Apply, with full particulars of experience, age, and salary required, to J. S. Breese, Pharmaceutical Chemist, Rusholme, Manchester.

MANCHESTER District.—Qualified Manager, single, outdoors, about 24, also smart Junior (outdoors), required for good-class Retail and Dispensing business; must have had good Counter experience in each case. Address, stating age, height, references, salary, etc., and enclosing photo (to be returned), to T. Woodruff, Ehesmere, Dialstone Lane, Stockport.

MANCHESTER.—Junior Assistant wanted at once; Suburban Dispensing business. Bates, Chemist, Brooks's Bar.

MANCHESTER.—Young qualified married man for Branch; salary £2 15s., with house and gas; good house, bath, etc.; progressive salary and good prospects; hours 9 to 9, Saturdays 11; Sunday evening two hours for Dispensing; half-day alternate Wednesdays, other Wednesday off 1 to 6.30. John L. Smith, Salford.

MANCHESTER.—Unqualified Assistant wanted, with experience of good-class business; must be good Dispenser and salesman; short hours; no Sunday duty. State age, experience, and salary expected (outdoors), 156/18, Office of this Paper.

MANCHESTER District.—Assistant wanted; permanency if suitable; must be capable Dispenser and good Window-dresser. State salary required, 17/70, Office of this Paper.

PUTNEY, S.W.—T. Jones & Co. require an Assistant, about 25, for good-class Dispensing and Retail business; one seeking a permanency preferred; would suit a married man without family. Apply personally, or by letter, enclosing photo if convenient, to Mr. Amore.

SCARBOROUGH.—Junior or Improver for the season (outdoors). Salary and references to J. E. Brown, 8 North Marine Road.

SCARBOROUGH.—At once, Junior or Improver for season, or permanency; Dispensing and Photographic. Age, salary (outdoors), and references in first letter, Hunt & Ruff, Pharmacists, opposite Railway Station.

SOUTH WALES.—Wanted, smart Junior for quick Cash trade. Apply, stating salary required (outdoors), and give full particulars, with photo if possible, Francis, Chemist, New Tredegar.

TUNBRIDGE WELLS.—Qualified or unqualified Assistant as Junior in high-class Dispensing business required early in August; must be a competent Dispenser; good opportunity to obtain further experience. State full particulars of experience and salary (in- and out-doors), Howard & Son.

W.C.—Assistant wanted for good-class Retail and Dispensing business. Roberts, Pharmacy and Dental Surgery, Tavistock Place, Russell Square.

WHITLEY BAY.—Qualified Manager for high-class business; Store experience preferred; permanency. State full particulars in first letter, including salary required (outdoors), references, etc., and when disengaged, "Chemist," 6 Grove Park Terrace, Harrogate.

WOLVERHAMPTON AND STAFFORDSHIRE GENERAL HOSPITAL.—Wanted, male Assistant Dispenser; Minor qualification; salary £100 per annum, luncheon provided; hours 9 a.m. to 5 p.m. Applications, with recent testimonials and full particulars, to W. H. Harper, House Governor and Secretary, General Hospital, Wolverhampton.

WORCESTER.—Junior Assistant required at once in good-class Dispensing business. Please send usual particulars to Thomas Lunn, Barbourne Pharmacy, Worcester.

YORKSHIRE.—Elderly qualified man required for N.H.I. work; comfortable berth, easy hours; work light. "Waite" (16/72), Office of this Paper.

A KEEN, practical Pharmacist required to assist in control and development of good high-class business within 50 miles of London; permanent position with direct interest offered to suitable gentleman prepared to invest from £500 to £1,000; experience of a first-class Dispensing business necessary, with organising ability and business system; age preferred from 25 to 30 years. Apply, in confidence, to "Vaccine," c/o Messrs. Meggeson & Co., Miles Lane, Upper Thames Street, London, E.C.

A QUALIFIED Lady Assistant wanted; used to good-class Dispensing. Please give full particulars of age, experience, and salary required (outdoors), to Mr. Thomas, Chemist, 63 Bambury Road, Oxford.

A QUALIFIED, experienced Assistant wanted shortly; outdoors. W. F. Pasmore, 320 Regent Street, W.

A N Assistant wanted, 24 to 30 years of age, for high-class Dispensing and Retail, with Photography; in- or out-doors; easy hours. T. E. Savage, Pharmacist, Crouch End, N.

A SSISTANT, of good address, unqualified, for two or three whole days a week and alternate Sundays for four hours; personal interview preferred. E. Anstee Turner, 100 Fulham Road, South Kensington.

A SSISTANT wanted, with good Dispensing and Counter experience; smart and capable. Apply, Messrs. Timothy White Co., Ltd., Chemists, Portsmouth.

A SSISTANT required; must be a quick and accurate Dispenser. State age, height, references, salary required (indoors), and enclose photo, Anderson & Virgo, Chemists, Worcester.

A SSISTANT with Optical experience, or good Optician desirous of entering Pharmacy entertained. W. B. Fitch, M.P.S., 143 High Street, Rochester.

A SSISTANT, about 24 or 25; knowledge Photography; easy hours; no Sunday; unqualified. Freshney's, Chemists, Grimsby.

A T once, smart Junior qualified Assistant; accustomed to quick trade; abstainer preferred. Apply, Walker, 78 East Road, London, N.

CHEMISTS; smart, young, qualified men, accustomed to quick Cash trade, required for branches in the North of England. Please state salary required, references, experience, and when disengaged, "Chemist," Taylors' Drug Co., Ltd., P.O. Box 141, Leeds.

DISPENSERS.—A number of women Dispensers are required temporarily in connection with the pricing and examination of Chemists' Prescriptions. Applications, on foolscap paper, in the applicants' own handwriting, should state qualifications, experience, and age, and be accompanied by copies of not more than three testimonials, and forwarded addressed, 259/52, Office of this Paper.

DRUGS Salesman wanted; temporary engagement for July sales; used to best-class trade. Apply, before 6 o'clock, on Saturdays up to 12, to Staff Superintendent, Harrods, Ltd., 44 Hans Crescent, S.W.

ELDERLY registered Chemist required; duties light; knowledge of Optics preferred, but not essential; suit retired Chemist. 158/400, Office of this Paper.

GENTLEMANLY Assistant required for light post in healthy country town; qualified preferred but not essential; suit middle-aged Chemist; two or three unfurnished rooms and part of large garden available if desired; Bookkeeping, Dispensing, and knowledge of Optics and Extractions required. State lowest salary and full details to 156/26, Office of this Paper.

GRIMBLE & KENT, Chemists and Opticians, Boston, Lincs, require a Junior Assistant (outdoors) for August 1. Apply, with full particulars, enclosing references.

J. T. DAVIES (CHEMISTS), LTD., Swansea, have vacancies for two Assistants, used to good-class Dispensing business; also a Bookkeeper. Apply, with fullest particulars.

JULY 20.—An Assistant, chiefly for Dispensing, also with knowledge of Photography; outdoors; easy hours; £2 a week. Hillman Attwell, Pharmacist, Cranleigh, Surrey.

JUNIOR or Improver for Mixed Agricultural trade, who is able and willing to undertake any work in connection with the business; month's trial and permanency to capable and obliging man. Write, E. J. Nickson, 56 Broad Street, Ladbroke.

JUNIOR Assistant on August 8; unqualified; 20 to 22; outdoors; no Panel work; easy hours; excellent local Technical Institute. State salary required, photo, and references to Nuthall & Mason, Pharmaceutical Chemists, Norwich.

JUNIOR Assistant for good-class Retail and Dispensing business; indoors; unqualified; good Dispenser; vacancy July 18; when applying state experience, age, height, photo if possible, salary; no Store men. Savage & Co., Pharmaceutical Chemists, Brighton.

JUNIOR or Improver; outdoors; good experience to be had. Apply, with full particulars and salary expected, to Mr. F. W. Goodess, The Pharmacy, 25 Market Street, Leicester.

JUNIOR, about 20 years, wanted at once for few months; quiet Country trade, giving plenty of time for study; no Sunday or Bank Holiday duty; easy hours; full particulars first letter re age, height, salary (indoors); healthy district and comfortable home; photo (to be returned). Baynard, Madeley, Salop.

JUNIOR Assistant or good Improver wanted for best-class Retail and Dispensing; outdoors; hours 8.30 till 8. Jeffries, Chemist, Guildford.

JUNIOR (indoors), accustomed to good-class Retail and Dispensing; time arranged for School of Pharmacy if desired. State age, height, reference, and salary required to Neave & Co., 33 Gay Street, Bath.

JUNIOR Assistant wanted for middle-class business; outdoors; three kept. State when disengaged, salary required, and references to "D." (153/7), Office of this Paper.

JUNIOR (18-20) at once; outdoors; time for study if required. Please state salary required and give usual particulars, enclosing photo if possible, Tremlett, Pharmacist, Fratton Bridge, Portsmouth.

JUNIOR Assistant: Country business; smart, competent; take charge occasionally. Full particulars, salary (outdoors), Read, Chemist, Thorne, via Doncaster.

JUNIOR Assistant required for Retail and Dispensing; time for study allowed. Apply, with full particulars as to age, experience, and salary required, to Innes & Son, Chemists, Stalybridge.

JUNIOR or Improver at once; good-class business. Please state full particulars, salary, etc., to Litchfield, Pharmacist, South Farnborough, Hants.

JUNIOR Assistant wanted immediately; easy hours; half-holiday; no Sunday duty. Apply, with photo, age, experience, and salary required in first letter, D. M. Lakdlaw, 73 Church Street, Basingstoke.

JUNIOR Assistant, unqualified, about 23 (outdoors), for July 27; good Dispensing and Photographic experience essential. Photo and full particulars to Geo. Pattison, Pharmaceutical Chemist, 70 Station Parade, Harrogate.

JUNIOR Assistant required; good-class Dispensing and Retail; Photography essential; outdoors or indoors. Full particulars to Percy B. Gray, Ph.C., The Rexall Pharmacy, Rugby.

JUNIOR Assistant wanted at once, about 23 years of age; knowledge of Photography essential and accustomed to good-class Retail; outdoors. State salary required, Julian Horrell & Co., Dispensing Chemists, The Pharmacy, Broadstairs.

JUNIOR (outdoors) for Dispensing and General Retail business. State age and salary required, Neve & Co., Pharmaceutical Chemists, Silverhill, St. Leonards.

JUNIOR Assistant wanted; used to good-class Cash and Dispensing business; outdoors. Photo if possible and full particulars to "Essex Coast" (158/35), Office of this Paper.

LABORATORY Assistant, with Minor qualifications; good opportunity for the right man; not over 25. Full particulars to "X. Y. Z.," c/o Messrs. S. Maw, Son & Sons, 7 Aldersgate Street, E.C.

LADY Locum (Hall) required for August in Provident Dispensary; light work. Apply, stating salary (outdoors) and experience, with references, to Miss Edwards, 18 St. Aikmund's, Derby.

LOCUM, qualified (male), wanted for six weeks, commencing August 10 or about that date. For particulars apply, Senior Dispenser, East Suffolk Hospital, Ipswich.

LOCUM wanted; seaside; four weeks' engagement; steady, reliable man; to take sole charge for three weeks; middle-class business; not afraid to work or sweep and dust shop if necessary; half-holiday weekly; no Sunday duty. Give fullest particulars to save correspondence, terms (outdoors), experience, age, references, when disengaged, photo if possible (returnable), to Burgess, Chemist, St. Sculpson's, Guernsey.

LOCUM, qualified, for Store trade, first fortnight August; light duties, chiefly Dispensing. References, terms, "H. C." 268 Edgware Road, W.

LOCUM required for about three months, relieving country managers for holidays. State age, whether married, and salary required, 16/71, Office of this Paper.

LOCUM (male); Hall or Minor; Surgery work; August 8-29. Morris, Dryland Street, Kettering.

MESSRS. COOPER, SON & CO., LTD., will have a vacancy shortly for a qualified Junior Assistant; outdoors. Please give full particulars of experience, etc., to "A. J. B. C.," 80 Gloucester Road, South Kensington, S.W.

OUTDOOR Assistant; must be an expert at Photographic work, good Salesman, Stockkeeper, and Window-dresser. Apply, Davies, Guernsey.

OUTDOORS (August 1).—Comfortable berth for gentleman, 22 or 23 years old; qualified preferred; time daily for recreation; liberal salary to suitable man; references given and required. Apply, with usual particulars, to Chas. Rundle, Pharmacist, 220 High Street, Walthamstow, N.E.

PART-TIME; Victoria, S.W.; mornings 10.30 to 1.30, and two evenings weekly, Tuesday and Saturday, and alternate Sunday evenings. State full particulars, terms, experience, references to "A. B. C." (155/32), Office of this Paper.

PHARMACIST for new branch; permanency with good salary and excellent prospects offered gentleman with ability and energy. Apply, Messrs. Timothy White Co., Ltd., Chemists, Portsmouth.

QUALIFIED Branch Manager wanted; one experienced in up-to-date business and seeking a permanency preferred; references must bear the strictest investigation; commencing salary £182 per annum and commission. Apply, stating fullest particulars, to 154/15, Office of this Paper.

QUALIFIED Manager wanted for sole charge of Country Druggist's business; a gentleman between 50 and 60 years of age; bachelor or widower will find a comfortable position; light duties; easy hours; home comforts; must be strictly temperate; state particulars; good references required. Newent Drug Co., Ltd., Newent, Gloucester.

QUALIFIED, for Management of small Branch in pleasant industrial neighbourhood, rapidly developing, near Cardiff; comfortable progressive berth, with good salary, to reliable man. Please give general particulars, with photo if possible and two last berths for references, Clarke, Chemist, New Tredegar, Mon.

QUALIFIED Chemist wanted; smart business man. State age, height, salary required, and give references, send photo (which will be returned), Hort & Co., 26a Elm Grove, Southsea, Hants.

QUALIFIED Assistant wanted, with good Dispensing experience, to commence any time within the next month or so, for permanency. Apply, stating age, experience, references, and salary required, to Bishop & Vincent, 460 Holloway Road, London, N.

QUALIFIED Assistant; 26-28; must be well recommended and capable of taking charge; indoors; good-class business; reasonable hours; no Sunday or Bank Holiday duty; Dispensing and Photographic experience essential. J. E. Hyde, Pharmacist, Bush Hill Park, Enfield.

QUALIFIED Manager wanted for high-class Dispensing and Light Retail business; permanency for capable man. Give full particulars, including age, experience, references, photo, and salary required, to Barkers, Dispensing Chemists, Grimsby.

QUALIFIED Chemist required at once; age immaterial if active and of good business habits; easy hours with moderate salary; in- or out-doors; abstainer preferred. Tottle, Chemist, Epsom.

QUALIFIED Locum wanted for first three weeks in August for Poor Law Infirmary; hours 9-5, Saturdays 9-1; no Sunday; 3 guineas per week and dinner daily. Rugman, 3 Barbly Road, W.

QUALIFIED Manager required for West-End Dispensing and Photographic business. Apply personally or by letter, stating age, experience, and qualification, to Ellis, 432 King's Road, Chelsea, S.W.

RELIABLE Junior required; Counter and Dispensing; indoors; state salary. Apply, Hughes, Chemist, Seymour Street, Euston.

RELIEF Assistant wanted, unqualified, from August 17 for five weeks. Particulars, in- and out-doors, etc., to Morgan & Co., Abersychan, Mon.

SEASIDE.—Active, capable Junior for Dispensing business, about 20. Send photo and full particulars, salary, "W." (156/22), Office of this Paper.

THOROUGHLY capable Assistant required immediately, qualified or unqualified, for good-class Dispensing business. Apply, full particulars of experience, height, salary (indoors), and enclose photo if possible, "Sussex" (157/35), Office of this Paper.

UNQUALIFIED Assistant, married, no family preferred, live on premises, wanted in August or September; steady, reliable; capable to act during temporary absence of principal; permanency; highest credentials required; some knowledge of Photography; Monmouthshire. 150/28, Office of this Paper.

UNQUALIFIED smart Counterman required; must have a knowledge of Dispensing and Photography and be a good Window-dresser. Apply, stating fullest particulars, to 154/150, Office of this Paper.

UNQUALIFIED Assistant or Junior wanted; outdoors; easy hours; half-day weekly; no Sunday duty. Apply, stating age, references, when disengaged, and full particulars, with photo if convenient, Robt. H. Barker, West End Pharmacy, Todmorden.

UNQUALIFIED Assistant wanted until about end of September; wages 50s.; age about 28. Photo if possible, Hall, Chemist, Skegness.

UNQUALIFIED Assistant (outdoors) for good-class business; Counter and Dispensing experience absolutely essential; knowledge of Photography acceptable; half-day weekly; alternate Sunday duty. Apply, with usual particulars, to "M. & R.", 127a St. John's Road, Waterloo, Liverpool.

UNQUALIFIED Assistant, London, N.W.; outdoors; about 25; quick and accurate Dispenser; must understand Photography. State salary and if possible enclose photo (to be returned), 159/37, Office of this Paper.

UNREGISTERED Assistant wanted at once; outdoors; part time or full. State salary and references to "Senior" (155/25), Office of this Paper.

WANTED until end of October, smart Assistant (with knowledge of Photography preferred) in Light Retail and Photographic business; indoors. State experience, etc., to Wm. Pickard, Pharmacist, Belle Vue, Bude, North Cornwall.

WANTED at once, an Assistant and a Junior, both used to a first-class business. Apply, stating salary required, age, height, experience, etc., with photo if possible, 156/1, Office of this Paper.

WANTED, for a select business in Ireland, an Assistant, qualified preferred; must be a good Salesman and accustomed to good-class trade. Apply, with full particulars and references, to "A. R.," c/o The British Drug Houses, Graham Street, London, N.

WANTED, Junior Assistant (outdoors), unqualified, for Light Retail and Dispensing business. Apply, stating age, height, salary required, when disengaged, and photo (to be returned), with references, to G. Henley, Chemist, Lyme Regis, Dorset.

WILSONS, Chemists, Harrogate, require a Junior and a Senior unqualified Assistant. Give usual particulars. Address, 40 James Street, Harrogate.

£90 per annum (indoors). — Assistant (qualified) for good-class Dispensing and Family trade; must be a neat and careful Dispenser and have a knowledge of Photography; duty divided between three; progressive salary. State age, height, photo, experience, and reference to "B." (156/7), Office of this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

C. W. JOHNSON & CO., Agents for Honoré Payan, Perfumer, Grasse, and Johann Maria Farina, Pantaleonstrasse, Cologne, require a Traveller for London district with a few exceptions on commission as Side-line. Write fullest particulars, which will be treated as strictly confidential, to 38 Great Ormond Street, Southampton Row, W.C.

CAPABLE qualified Assistant required in Wholesale Department of large high-class firm of Chemists in the provinces; would be required for testing Drugs and Laboratory preparations and for experimental work. Mention age, experience, salary desired, and customary information, "S. J." (156/32), Office of this Paper.

COUNTER hand, aged about 20, required on Dry Floor of London Wholesale house. State previous experience and wages required to 159/34, Office of this Paper.

DRUGGIST Sundries and Toilet Articles. — Experienced Traveller wanted for South and East Coast. Apply, 142/20, Office of this Paper.

EXPERIENCED Order Clerk wanted for Drugs, Patent Medicines, and Perfumes; good salary to competent man; dinner and tea in. Apply, Mr. Wigginton, Harrods, Ltd., Brompton Road, S.W.

GENTLEMAN required to assist at stall at Aberdeen Exhibition, for week commencing July 27. Apply, 158/36, Office of this Paper.

GOOD Salesmen required, with connection amongst Chemists, for introducing "Nu-tro" Hair Preparations under competition offer advertised in the C. & D.; very small amount of samples; liberal commission. State age, full particulars, and ground covered to "Nu-tro" Co., 31, 33, 35 Lower Castle Street, Bristol.

IMPORTANT firm of Manufacturing Perfumers require Representatives in various parts of the United Kingdom to push their goods for the coming season, especially among Chemists; gentlemen already holding other agencies preferred. Apply, with particulars, to 17/15, Office of this Paper.

INVOICE Clerk (Junior), with knowledge of Typewriting, for London Wholesale Druggists. State wages and experience to "Solunum" (17/20), Office of this Paper.

LABORATORY man, accustomed to Emulsion-making and General Laboratory work, wanted for Manufacturing house in London. Full particulars and wages expected to "Alpha" (155/33), Office of this Paper.

LEDGER and Invoice Clerk wanted to take charge of office in small Drug house in the North of England. State full particulars as to age, previous experience, salary expected, 160/3, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

BOMBAY.—Qualified Assistant wanted for a first-class private British firm of Chemists; age not over 30; three years' agreement; salary £200 first year, £220 second year, £240 third year; passage paid out and home by P. & O. steamship. Apply, with copies of testimonials and photo, to "R. L.," S. Maw, Son & Sons, 7/12 Aldersgate Street, London, E.C.

CHINA.—A thoroughly competent Assistant, with Minor qualification; age not over 30; must have had good experience in first-class Retail business; also reliable Drug Warehouse Clerk, with not less than five years' experience in Pricing and Invoicing and in keeping Stockbooks for Wholesale house; good salary for the right man; passage paid out and home; 4 or 5 years' agreement. Address, "China" (157/24), Office of this Paper.

EGYPT.—Qualified Chemist required for the season commencing October; good French and English indispensable; a knowledge of German also would be an advantage; engagement for the season certain, and possibly for an extended period by arrangement. Write, with full particulars, "Khalif," c/o F. Newbery & Sons, Ltd., Charterhouse Square, E.C.

PARIS.—Assistant; good Dispenser. State age, height, particulars of last two situations, when disengaged, salary (outdoors), 17/53, Office of this Paper.

ENGLISH Assistant, not necessarily qualified, but smart and good Salesman, wanted immediately; two months' engagement; knowledge of French not essential. Write to E. Rey, Pharmacien, Vichy (Allier), France.

QUALIFIED.—Wanted, by September 1, 1914, or earlier, young qualified Chemist, English nationality, but with good knowledge of French language, to introduce high-class Pharmaceutical and Chemical products to Medical Men and the trade in France; business development ensures a good opening for an energetic man able to meet the requirements of the position. All applications in writing, with usual particulars, to 17/64, Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

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MORE SATISFACTION.

From a letter (16/31) dated June 30:—

"I am pleased to state that I have received a very satisfactory situation from the advertisement in last week's Supplement, and thank you for the courteous way in which I have been treated and the promptitude with which I have received the answers to the advertisement."

YOUNG Lady, two years' experience Packing (Chemists') Goods (Pills, Tablets, Capsules, Specialties, etc.), requires similar post; salary 12s. 6d. Chatto, 5 Winchester Street, Piccadilly.

ASSISTANT; 27; 11 years' good all-round Dispensing, Photographic, and Counter experience; tall; abstainer; Birmingham or district. Apply, 154/16, Office of this Paper.

COUNTRY.—Unqualified; 22; Counter, Dispensing, Window-dressing, permanency; references 6 years. Sinclair, 42 Bath Street, Leamington.

DENTISTRY, Pharmacy, Optics, etc.; Physician's Surgery, Prescribing experience; single-handed management; non-reg. 157/10, Office of this Paper.

DISENGAGED, unqualified Drug Store Manager; 6 years'; good Counterman, Prescriber, Window-dresser, and willing; age 29; permanency; good references. Peter, 10 Claribel Road, Brixton.

DISENGAGED; Locum; qualified; good references. 4 Citadel Terrace, Hoe, Plymouth.

DISPENSER, Stockkeeper; Pricing; not Counter; London; abstainer. "H.", 222 Portsdown Road, W.

DRUG-STORES Branch Manager; Hall qualification; age 47; abstainer; single; live on premises if convenient; permanency desired; town or country. 159/30, Office of this Paper.

EXPERIENCED Doctor's Dispenser; qualified; S.W. preferred. "Pharmacist," 22 Lonsdale Road, Barnes.

EXPERIENCED qualified man, 41, single, as Supervisor, Dispenser, or other useful capacity; moderate terms for permanency. "Permanent" (257/25), Office of this Paper.

EXPERT Window-dresser seeks situation, home or abroad; experienced in special displays. 153/8, Office of this Paper.

HOLIDAY Relief; qualified; 59; energetic; vacant periods August 4 to 15 and 31 to September 12. Address, "Pyro," 402 St. John Street, E.C.

HOLIDAY Relief; evenings; qualified; experienced; reliable. "Minor," 12 Tyrwhitt Road, St. Johns, S.E.

JUNIOR (21) seeks London experience, about end August; 5 years' experience; last situation 21 months. "T. T." (154/9), Office of this Paper.

JUNIOR; Dispensing, Photographic; age 19; slightly deaf. Appleby, 14 Norman Street, Dover.

LADY Dispenser (Hall certificate) requires post, Locum or permanent. 150/33, Office of this Paper.

LOCUM or permanent; qualified Dispenser; terms moderate. Harries, Garm View, Llanwrtyd Wells.

LOCUM; qualified; 45; good references; in- or out-doors; London preferred; disengaged last half of August, all September and October. Page, 138 Kingsland High Street.

LOCUM, Manager, booking engagements; 7 seasons' experience. "Major," c/o Henry, Chemist, Shotley Bridge.

LOCUM or permanent; 38; tall; Photography; unqualified. Howes, 15 Hexthorpe Road, Doncaster.

LOCUM; disengaged July 8; three weeks only; good experience. "Jacobus," Powell, Pharmacist, Fordingbridge.

LOCUM; unqualified; at liberty July 6; sound credentials; reasonable terms. "B. W.," 2 Granville Road, Middlesbrough.

LOCUM; Manager or temporary; qualified; age 57; active; good references; disengaged; South preferred. Snoxell, 75 Woodbridge Road, Guildford.

LOCUM; qualified; 25; disengaged July 18; West-End experience. Apply, Anthony, 22 Brook Street, W.

LOCUM, qualified, open for engagements from July 11. Walker, 124 London Road, Hazel Grove, Cheshire.

LOCUM; 32; free from 17th till 30th July; good all-round experience; terms moderate. "W. D." (158/39), Office of this Paper.

LOCUM or permanency; thoroughly experienced; disengaged August 17. Forster, 5 Coleridge Road, Finsbury Park, N.

LOCUM; unqualified; experienced; London only; free until 25th. "Locum," 29 Hetherington Road, Clapham.

LOCUM; unqualified; 35; good experience; disengaged. Dewar, 51 Elrston Street, Chelsea, S.W.

LOCUM-TENENS; holiday engagement; terms moderate. W. Provost, 27 Pathfield Road, Streatham Common, S.W.

LONDON.—Unqualified; good Dispenser and Counterman; 33; permanency preferred; best references; experienced. "Willing" (157/19), Office of this Paper.

MANAGER high-class Branch or Senior in good Pharmacy; qualified; free middle of August; outdoors; age 31; Continental experience. Apply, "E." (157/01), Office of this Paper.

MANAGER; 45; married; energetic; good all-round experience; reliable; work up branch or easy succession; unregistered. "Energy" (159/32), Office of this Paper.

MANAGERSHIP, to commence beginning of August; 28; Major qualification; good experience, West End, (Suburban, Provincial; preferably in or near London. 153/39, Office of this Paper.

NORTH.—Disengaged, experienced Assistant; Locum or permanency; competent. 54 Darnell Street, Newcastle-on-Tyne.

NORTHAMPTON.—June accounts; Dispenser can arrange with Doctor or Chemist for Dispensing or Books; good writing and experience. Write, 48 Abington Avenue.

PHARMACEUTICAL Chemist, (49) seeks engagement; tall, active; obliging. "Veritas," 91 Lupus Street, S.W.

PHARMACEUT free for Locum work latter part August and September; London and Provincial experience Optics, Prescribing, Dispensing. "M.P.S.," 5 Putney Hill, S.W.

QUALIFIED; 24; disengaged middle of July; permanency. "Major," 87 Fentiman Road, Clapham Road, S.W.

QUALIFIED elderly Chemist seeks engagement in business or as Dispenser to Surgeon; moderate salary for short hours; South London for choice. 154/5, Office of this Paper.

QUALIFIED; 36; tall; married; Counter, Dispensing, Photography; disengaged. Stewart, 16a Highgate Road, N.W.

QUALIFIED; young; married; all-round experience; abstainer. Apply, 153/38, Office of this Paper.

QUALIFIED; Manager or Managing Assistant; 30; good organiser; up-to-date methods; thoroughly experienced; best references. Barter, 1 St. Mark's Road, Mitcham, Surrey.

QUALIFIED; 41; single; whole or part time; terms to suit employment. 157/250, Office of this Paper.

QUALIFIED, fluent French and German, West-End experience, desires permanency; outdoors; London preferred; accustomed to take charge; best references; now on Continent. Apply, "International" (157/1), Office of this Paper.

QUALIFIED; 30; Counter, Dispensing, N.H.I., etc.; London preferred. "Ferrum" (157/13), Office of this Paper.

QUALIFIED Manager; outdoors; 39; married; London or Suburbs; abstainer; disengaged Monday; Locum engagement entertained. "E.," 19 High Road, Wembley, Middlesex.

QUALIFIED; elderly; Locum or Part-time; excellent references. "B." (159/9), Office of this Paper.

SHOULD you require a Manager to reorganise and work up a neglected business, or commence a new one, M.P.S. (present situation over eight years) will give conscientious, reliable, and energetic services for mutual benefit; high-class Retail, Dispensing, Photographic; no Drug Store. Apply, in first instance, 157/22, Office of this Paper.

SITUATION as Chemist's Assistant for Medical Student (finished third year) for long vacation. M.Ene, 32 Belgrave Crescent, Bath.

TEMPORARY situation required for a few weeks; Minor qualification. Particulars, etc., to 159/19, Office of this Paper.

UNQUALIFIED; 24; six weeks' engagement or Locum work; London only; disengaged now. "Locum," Grove House, The Square, Brixington, Kent.

UNQUALIFIED; 32; single; all classes experience. Tudor, c/o Eall, Chemist, Kingston-on-Thames.

UNQUALIFIED Assistant; 32; single; neat, accurate Dispenser, Counter, Photography; energetic, reliable. 152/39, Office of this Paper.

UNQUALIFIED; evening work wanted; Dispensing or Surgery Attendant. "A.," 24 College Street, Chelsea.

UNQUALIFIED Assistant; 30; first-class varied experience; able to take charge; permanency. "Reliable," c/o Foster, 430 Fulham Palace Road, London.

UNQUALIFIED Assistant; wage 35s.; age 40; Mixed business; permanency; good references. 157/12, Office of this Paper.

UNQUALIFIED Assistant (Senior); tactful, keen Salesman, Buyer, attractive Window-dresser, Dispensing. Apply, 156/39, Office of this Paper.

UNQUALIFIED (23) desires situation near London; four years' London experience. Apply, "Scot" (156/23), Office of this Paper.

UNQUALIFIED Assistant; 23; 8 years' all-round experience Counter, Dispensing, Photography; abstainer; tall; splendid references; disengaged middle July. "Active," 39 Williams Street, Merthyr Tydfil.

UNQUALIFIED Assistants (two), smart, 22, 20, seek berth together; good experience in high-class Dispensing, Retail and Photographic; highest references; seaside or otherwise. Taylor, 56 Knight's Hill, W. Norwood, S.E.

UNQUALIFIED Assistant; 27; 9 years' experience; good references. "Regius," 76 Greenwood Road, Dalston, N.E.

UNQUALIFIED; all-round conscientious worker; engagement wanted. 160/04; Office of this Paper.

WHOLESALE.

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FRENCH Chemist, 24 years old, who has specialised as Food Analyst and Bacteriologist, wishes to spend three months in England in order to learn the language; desires to be employed in the Factory of a Preserve or Chemical Manufacturer or in a large Chemist's or Druggist's Stores; au pair, or would pay a small fee. Address, "F. S." c/o Davies & Co., Advertising Agents, Finch Lane, Cornhill, E.C.

EXPERIENCED Traveller, holding present position with well-known firm (Drugs and Specialities); at liberty August; 20 years' record; highest references; knowledge of advertising, Colonial and Continental trade. Apply, 155/35, Office of this Paper.

EXPORT.—Gentleman seeks position as Representative for Wholesale house for South America; knowledge of markets; speaks Spanish. Address, "Representante" (141/30), Office of this Paper.

INVOICE Clerk.—Young man desires engagement; smart, energetic; good experience; first-class references. 156/19, Office of this Paper.

LABORATORY Assistant; 14 years' experience in Distillation, Extracts, Ointments, etc. 14 Holland Road, Leicester.

QUALIFIED Chemist requires situation as Medical Interviewer; well up in Materia Medica, Therapeutics, etc. 150/36, Office of this Paper.

TRAVELLER (Drugs or Sundries) requires situation with good progressive house; good connection Lancashire, Staffordshire, South Wales. "Aspirin," 9 Dogsthorpe Road, Peterborough.

TWO Manufacturers of Medical, Toilet, Perfumery, and Proprietary Articles.—Chemist open to engagement; original Formulas new and established; large London business experience. 158/4, Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.

ASSISTANT wants re-engagement anywhere abroad. 160/4, Office of this Paper.

MISCELLANEOUS.

M^{rs} ADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green. Shares for Sale (free of commission, subject).—200 Claudius Ash 5½ per cent. Preference, 22s. x.d.; 100 Parke's Drug Ordinary, 10s. 6d. c.d.; 50 Brunner Mond Ordinary, 85s. 6d.; 200 Salt Union Ordinary, 5s. 9d.; 100 Preference, 29s. 6d.; 100 Bovril Deferred, 7s.; 500 Borax new Deferred, 37s. 7½d.

Wanted (subject).—170 Wright Layman Preference, 20s. 10½d.; Camwal Preference and Debentures, Idris Debentures.

List of Shares for Sale and Wanted sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SHOPFITTINGS (Second-hand).—Complete Set, suitable for Branch or beginner; 10-ft. handsome Drug Fitting, 12-ft. Plate-glass Counter, 5-ft. Dispensing screen, Counter and Sponge Case, Perfume Case and Desk, Bent Plate-glass Counter Case, Mahogany Wall Case, Recess-labelled Shop-rounds and Ointment Jars, Dispensing Scales, Shop Chairs, etc.; 60 guineas. **PHILIP JOSEPHS & SONS, LTD.**, 95 Old Street, London, E.C. Phone 9057 London Wall.

CHEMISTS' Fittings, Silent Salesman Showcases, Drugfittings, Dispensing-screens, Wall-cases, Perfume-cases, Desks, Glass-front Counters, Counter Drawers, Shop-soiled, Second-hand, at unbeaten prices; before you decide get my estimate, you can't do better; 30 years fitting Pharmacies. George Cook, the Chemist's working Shopfitter. New address: Catherine Street, City Road, E.C. (few doors from Old Street).

BEST cash price for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; no buy and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

£25 10s. will buy 12-ft. Drug Fitting (Glass Knobs and Labels), 11-ft. Mahogany-top Counter, 4-ft. 6-in. Wall Case, Dispensing Screen and Counter, Perfume Case and Desk; all sound and in good condition. Call or write, **RUDDUCK & CO.**, 262 Old Street, E.C.

SECOND-HAND Fittings.—For Sale, cheap, 6-ft. and 7-ft. Dispensing Screens; 6-ft., 7-ft., 10-ft., and 12-ft. Wall Cases; 8-ft., 10-ft., and 12-ft. Glass-fronted Counters, full of Drawers; 4-ft., 5-ft., 6-ft., 8-ft., and 10-ft. Mahogany and Plate-glass Counters; Drug Fittings, all sizes; Silent Salesman; Cash Check Tills from 15s.; estimates for alterations by experts. **FARLEY'S SHOP-FITTING WORKS**, Show Rooms, 227 Old Street, E.C.

PRINTING tasty in design, produced under proper and healthy conditions from modern type, at up-to-date prices; Brochures, Packet, Handbill, Business Stationery and General Printing; have you seen samples? a postcard (printed heading) will bring them. Walter Knight, Chemists' Printer, Rushden. Established 1895.

SODA-WATER Trolley, that makes heavy work light, and on which a boy of 8 can easily convey 3 dozen syphons; will go through any doorway; dozens in use in all parts of the country; carriage paid, 37s. Sole Makers, Arthur & Co., 9 K.P., Cambridge.

GOLDEN Opportunity.—Good as new; Chemist's handsome Drug Fitting, Solid Mahogany Counter, Mahogany Plate-glass Wall Case, Dispensing Screen, Plate-glass Counter Case, Shop-rounds and Jars, Window Enclosure, Glass Shelves, Carbonyl, the lot £65 10s.; absolute bargain. H. MILLS, the Chemists' Shopfitter, Shop-front Works, 163-5 Old Street, E.C. Phone: London Wall 550.

EFFECTIVE WINDOW DISPLAYS

pay, and are one of the best adverts. you can have. My Window Centres are the best aids in Window Dressing—Centres for any Speciality. Special ones for your own requirements. Library Scheme ready; send for particulars at once. Only one Pharmacist in a town supplied.

N.B.—These are not toys, but place you on the same footing as the largest advertisers.

BILLYARD ALLISON, PHARMACIST, RETFORD.

**I
AM
NOT**

a pharmacist who has turned ticket writer, but I have discovered a new method of window advertising by means of handsomely printed (not written) and beautifully illustrated cards which produces astonishing results. Write for details.

BROMLEY, Chemist, WHETSTONE, MIDDLESEX.

EXCHANGE COLUMN

one halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

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FOR DISPOSAL.

BOOKS AND PERIODICALS.

FIELD, Newth, Lucas, etc.; good condition. Joseph, 16 Mauleverer Road, Brixton, London.

PROPRIETARY ARTICLES.

DOZ. 1s. 1½d. Barkola globules and 1½ doz. Barkola ointment, 1s. 1½d., unstamped, at 6s. per doz., any quantity. Northern Drug Co., 448 Kingsland Road, N.E.

LE or Exchange.—2 Nitrox, 1s.; 4 Marmola, 2s. 6d.; 2 Sulthine, 1s. 6d.; 4 Sitalin, 2s. 6d.; 1 Macassar oil, 3s. 6d.; 2 Crosby's elix., 1s. 1½d.; 1 Rooke's elix., 2s. 9d.; 1 Antikamnia, 1s. 1½d.; 6 Rooke's pills, 1s. 1½d.; 3 Bromo-phos., 1s. 1½d.; 5 Outicura resolv., 2s. 3d.; 7 Wood's peppermint, 1s. 1½d.; 4 Valda tablets, 1s. 1½d.; 1 Blosser's remedy, 4s. 6d.; 1 Hood's sarsaparilla, 2s. 8d.; 1 4s. 6d. "Cure-I-can"; 1 1s. 1½d. Liquezone oint.; 1 1s. 1½d. Crex; 2 1s. Mandrake pdr.; 1 1s. 1½d. Caskeens; 1 2s. 9d. Fenning's worm pdrs.; 5 7½d. Keen's pile cure; 1 1s. 1½d. Vigorettes; 1 1s. 1½d. Wooldridge's; 1 Maccan's tincture; 3 1s. 1½d. Atkinson's preserv.; 3 1s. 1½d. Antexema granules; 1 germicidal soap. Ellisson, Hednesford.

SHOP FITTINGS.

For sale, or exchange for glass shelving, 4-ft. mahogany dispensing screen, glass shelves and mirror back; condition as new; £3. The Dispensary, Cwmaman.

WANTED.

WANTED, small mixer for mixing face powder, etc. 17/4, Office of this Paper.

TABLET-MAKING machine; good condition; low price. "G.," 46 Priory Park Road, Kilburn.

COLLAPSIBLE-TUBE filler, second-hand, with nozzles ½ in. and ¾ in. Briggs, 2a Westmoreland Road, S.E.

TECHNICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

NEW EDITION OF "PHARMACEUTICAL FORMULAS."

The first edition of this work was published in April 1898, and the ninth in June 1914. In the interval the book has been much enlarged and improved. It comprises the following chapters—Toilet Preparations and Specialties; Preparations for the Hair; Dental Preparations; Perfumes; Beverages; Culinary and Household Requisites; Horticultural and Agricultural Preparations; Writing Materials; Varnishes, Polishes and Stains; Lozenges; Miscellaneous Preparations; Photographic Chemicals and Preparations; Galenic and Medicinal Preparations; Bacteriological and Microscopic Work Preparations; Supplementary Chapter; Appendix. As a Book of Formulas for Chemists and Pharmacists there is no better than this in the English language. It was the first book officially approved by the Revenue Authorities of Great Britain as a well-known and recognised book—reference to formulas in which is accepted as evidence that a medicinal preparation is a "known, admitted and approved remedy" exempt from medicine stamp duty when sold in Great Britain by a privileged person. It is thoroughly up-to-date and extends to 1,078 pp., including a complete index. Price 10s., post free 10s. 6d., from the Offices of "The C. & D.," 42 Cannon St., London, E.C.; or from Wholesale Houses at the published price.

AUSTRALASIAN NEWS.

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of nine Chemists' Societies in Australia and New Zealand.

New South Wales.

PHARMACEUTICAL SOCIETY.—At the meeting of the Council on May 12, it was resolved to present gold medals to Messrs. A. Wadsworth and C. J. Carroll, at a dinner to be given in their honour, in recognition of the great services that these gentlemen have rendered to pharmacy.

New Zealand.

KAURI.—A company has been formed, with a capital of 30,000£, to carry on dredging operations for the recovery of kauri, which exists in large quantities in many of the swamps of the North Island. Operations are expected to commence this year. If this new method of collection proves successful, it is anticipated that similar operations will be commenced in other swamps, which cover many thousands of acres. The swamps, after being dredged, will be drained, and should then make an excellent dairying country.

Victoria.

HOSPITAL SUPPLIES.—The Victorian Government appointed a board of representatives of the various Melbourne hospitals to call for joint tenders for the supply of all hospital necessaries. The contract for the supply of drugs, chemicals, and surgical instruments came to 8,000£. The largest portion given to any wholesale drug-house in Melbourne was 487£, and much dissatisfaction is expressed because the bulk of the contract has been obtained by firms outside Australia.

PHARMACY BOARD.—The annual report of the Pharmacy Board of Victoria for 1913 states that the administration of the Poisons Acts entailed a large amount of work. During the year 1913 certificates were granted to 162 persons in country districts as dealers in poisons. The reports furnished by the police in all cases of deaths from poisons were closely investigated to see that the provisions of the Acts had been complied with, and where any breaches of the Acts had occurred prosecutions followed. The Board feel that a systematic inspection throughout the State should be made by a whole-time inspector, acting under the direction of the Board. Insufficient funds have prevented the Board from undertaking the work during the past year. A large number of complaints have, however, been investigated, and many of these have been found groundless. In one very glaring case where a prosecution was undertaken the Police Magistrate inflicted a nominal penalty of 5s. Upon the inadequacy of the fine being brought under the notice of the Attorney-General, he advised the Board that he was unable to interfere with the decision of the Magistrate, but intimated that in future in difficult cases the services of the Crown Law Department would be available if the Board so desired. During the year attention was drawn to the neglect of certain United Friendly Societies' dispensaries to observe the provisions of the Poisons Acts and regulations made thereunder, particularly with regard to the use of domestic bottles for the purpose of dispensing poisonous mixtures for external application. At a conference with the dispensaries the requirements of the law in this respect were pointed out. While the Board has been advised that the Pharmaceutical Society of Great Britain has abolished Latin as a compulsory subject in the Preliminary examination, and has included it in the list of optional subjects, the Victorian Board states that it is not yet prepared to recommend the adoption of a similar course with regard to the Victorian Preliminary examination.

PROFITS IN SWITZERLAND.—A Committee of the Swiss Pharmaceutical Society has decided that all special preparations employed in prescription work should yield a net profit to the pharmacist of 50 per cent., and all other specialities (counter-sale articles) at least 33½ per cent. These rules do not, however, apply to foods.

COLONIAL AND FOREIGN NEWS.

PHARMACY IN NORWAY.—Pharmacy proprietors and qualified pharmacists in Norway have agreed that the salaries of qualified pharmacists, reckoned according to seniority or length of service (after the State examination), shall be as follows: One and two years, 2,200kr.; three and four years, 2,400kr.; five and six years, 2,600kr.; seven, eight, and nine years, 2,800kr.; ten, eleven, and twelve years, 3,000kr.; thirteen and fourteen years, 3,200kr.; fifteen, sixteen, and seventeen years, 3,400kr.; eighteen and nineteen years, 3,600kr.; and twenty years and over, 4,000kr.

INTERNATIONAL CONGRESS OF APPLIED CHEMISTRY.—The first brochure in regard to the St. Petersburg meeting has been issued. The meeting will be held from July 26 to August 8. The Hon. President is M. D. P. Konovaloff, Assistant Minister of Trade and Commerce, and President Professor P. J. Walden. A Central Organising Committee has been formed, with Emeritus Professor Major-General W. N. Ipatiew as Hon. Secretary, and, in addition, local organising committees have been established in Moscow, Kieff, Kharkoff, Warsaw, Riga, Helsingfors, and Baku. More complete announcements will follow. The Congress provides an exceptional opportunity of visiting the Czar's dominions.

ASSISTANTS' STRIKE.—The pharmaceutical assistants in Budapest have for some time shown signs of discontent, which culminated in a strike on June 7. Of the 285 assistants in the pharmacies in Budapest, no fewer than 270 participated in the strike. The Government stepped in as arbitrator, and our latest information is that the matter has been settled. The principal demands include the creation of a scale of salaries with fixed increments; that in pharmacies with three or more assistants each assistant should be off duty every fourth day; a well-ventilated room in which to spend the night for the assistant doing night-duty; and a regulation of the times for meals, night-duty, holidays, and notice to leave. The hours of pharmacies, it is contended, should be limited to from 7.30 A.M. to 8 P.M.

CHECKING MEDICINE-TAKING.—In Vienna an arrangement has existed up to now according to which the pharmacist gave a copy of the doctor's prescription to sick-club patients, the forms for these copies being supplied by the sick-clubs. The patient used to take the copy to the doctor when next visiting him, and if the doctor deemed it necessary to repeat the medicine he simply appended his signature with the date to this copy. The Viennese sick-clubs have now forbidden this practice, and refuse to supply any more forms. The clubs have notified the pharmacists that drugs supplied on copies of this kind will not be paid for by the clubs. The reason advanced by the club authorities for this step is that these copies have led to a reckless and totally unnecessary expenditure for drugs. One club states that the cost of medicines for its members amounted to 8,333*l.* in 1904, and to 21,452*l.* in 1912, although the number of members has not appreciably increased.

PRESCRIPTION REGULATIONS.—The amendment to the Norwegian regulations for the sale of poisons in pharmacies forbids the repetition of a prescription containing any ingredient which is printed in heavy type and marked with an asterisk in the official drug-tariff, unless the prescriber writes on the prescription that it may be repeated. This applies only to medicines for internal use, suppositories, enemas, inhalations, snuffs, and subcutaneous injections. The doctor's permission to repeat the prescription holds good for one year only. Prescriptions containing remedies marked with an asterisk in the drug-tariff, and also brandy, alcohol, wine, or other alcoholic liquids or mixtures of this kind which may be used as beverages cannot be repeated except for the original holder of the prescription. Only those drugs against which no asterisk is placed in the drug-tariff, and others of the same description, may be sold over the counter without any restrictions, with the exception of alcohol, the sale of which is subject to special regulations.

GAZETTE.

Bankruptcy Acts.

ADJUDICATIONS.

PALMER, W., lately of Slade Lane, Longsight, Manchester, now at Rusholme Road, Chorlton-on-Medlock, chemist and druggist.

RECEIVING ORDER.

PALMER, W., lately Slade Lane, Longsight, Manchester, now Rusholme, Chorlton-on-Medlock, chemist and druggist.

DEED OF ARRANGEMENT.

Hicks, Joseph, 37 High Street, Weston-super-Mare, Chemist and Druggist.—Trustee: A. Collins, 28 Baldwin Street, Bristol, C.A. Dated, June 18; filed, June 23. Secured creditors, 371*l.*; liabilities unsecured, 765*l.*; estimated net assets, 559*l.* The creditors include: Allen & Hanburys, Ltd. (8*l.*); Ashton & Parsons, Ltd. (4*l.*); Butler & Crispe (65*l.*); Burroughs Wellcome & Co. (4*l.*); H. Bronnley & Co., Ltd. (8*l.*); T. F. Bristow & Co., Ltd. (25*l.*); The British Drug Houses, Ltd. (3*l.*); Cresswell Bros., Ltd. (20*l.*); Evans Sons Lescher & Webb, Ltd. (5*l.*); Fassett & Johnson, Ltd. (3*l.*); D. & W. Gibbs, Ltd. (4*l.*); Ingram & Royle, Ltd. (8*l.*); S. Maw, Son & Sons, Ltd. (40*l.*); Parke, Davis & Co. (4*l.*); F. Schutze & Co., Ltd. (3*l.*); J. Simpson & Co., Ltd. (5*l.*); Virol, Ltd. (10*l.*); Van Oppen, Ross & Co., Ltd. (5*l.*); Wright, Layman & Umney, Ltd. (31*l.*); Coate & Co. (7*l.*); T. Kerfoot & Co. (24*l.*); Vinolia Co., Ltd. (3*l.*); Camwal, Ltd. (10*l.*); Evans, Gadd & Co., Ltd. (6*l.*); Coleman & Co., Ltd. (6*l.*); G. W. Harrison (4*l.*); and the York Glass Co., Ltd. (6*l.*).

Sports.

THE SHEFFIELD CHEMISTS' CRICKET CLUB on June 25 met the Shireoaks Club at Shireoaks. The home team were dismissed for 180 runs, and the Chemists secured 76 runs for four wickets, when the play had to be stopped to allow the visitors to catch their train home.

ALLENBURYS C.C. v. BURGOYNE, BURRIDGES C.C.—A match played at Wadham Lodge on June 27 resulted in an easy win for the Allenburys. Scores: Allenburys, 140; B.B.C.C. 24. For the winners Crossman (35), Williamson (26), and Stannard (23) batted well, while Porter bowled with success, taking six wickets for 6 runs.

THE ANNUAL BOWLING-MATCH between teams representing Edinburgh and Glasgow pharmacists was played on the Queen's Park Green, Glasgow, on June 24. After a very closely contested game the home team proved victorious by the narrow margin of two shots, the scores being 81 and 79. The best rink was composed of Messrs. J. Moir (skip), W. L. Currie, H. P. Arthur, and A. McMillan, who were 19 up. A most successful social evening followed in the Royal Restaurant, West Nile Street, Mr. W. L. Currie being in the chair, and he was supported by Messrs. Hill, Gilmour, Guthrie, Nicholson, and Moir. Messrs. Cochrane, Currie, Gilmour, Hill, Marshall, Nicholson, and Smith delighted the company with songs or recitations, and Mr. McMurtrie was accompanist. During the evening Mr. J. R. Hill presented the prizes to the winning team. The toasts proposed were "The Edinburgh Team," by Mr. Currie, acknowledged by Mr. Cochrane; "The Glasgow Team," by Mr. Nicholson, responded to by Mr. J. B. McVittae.

COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Tuesday, July 7.

Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin, at 3 P.M. Council-meeting.

Thursday, July 9.

West Ham Association of Pharmacy. Official ramble, conducted by Mr. Soper. Train leaves Stratford Main Station at 2.30 P.M. for Theydon Bois. Mr. A. H. Cleland, Hon. Secretary, 180 High Road, Leytonstone, N.E., will supply further particulars.

PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below.

- A**cid. Scillæ, P.B., 7 lbs. @ 3d. lb.
 Acid. Acetylo-Salicyl., 1 cwt. @ 1/10½ lb.;
 56 lbs. @ 1/11 lb.; 7 lbs. @ 2/2 lb.; 1 lb. @
 2/5 lb.
- A**cid. Carbol. X.tus., 39/40; 56 lbs. @ 5d. lb.;
 10 lb. tins @ 6/- each; 36 1-lb. Bots.
 @ 9½d. lb.; Single Bots. @ 1/- lb.;
 Detached Cryst. 10 lb. tins @ 8/- each;
 1 lb. @ 1/2 lb.; Crude Black, 45 gall.
 casks @ 1/- gall.; 5 gall. drums @ 1/4
 gall.; 1 gall. tins @ 1/6 each.
- Diethylharbituric, 16 oz. @ 16/- lb.; 1 oz.
 @ 1/4 oz.
- Tart., cryst. or pulv. B.P., 1885, 1 cwt. @
 1/1 lb.; 7 lbs. @ 1/2 lb.; parv. ¼d. lb.
 extra.
- A**deps Benz., B.P., 28 lbs. @ 9d. lb.; 7 lbs.
 @ 10d. lb.
- A**mmon. Brom., P.B., 1 cwt. @ 2/1½ lb.; 7 lbs.
 @ 2/3½ lb.
- B**ls. Copaibæ, pure, 44 lbs. @ 2/- lb.; 9 lbs. @
 2/1 lb.; 1 lb. @ 2/6 lb.
- Peruv., P.B., 7 lbs. @ 7/6 lb.; 1 lb. @ 8/-
 lb.
- Sulphur, 7 lbs. @ 8d. lb.
- Tolut. B.P., 50 lbs. @ 2/8 lb.; 1 lb. @ 3/9
 Benz-Naphthol, 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
- Bismuth, P.B., Carb., 28 lbs. @ 8/8 lb.; 7 lbs.
 @ 8/10 lb.; 3 lbs. @ 9/1 lb.; 1 lb. @
 9/3 lb.; subnit. 1/- lb. less.
- Boric Mixture, 1 cwt. @ 43s 6d cwt.
- Borax, 1 cwt. @ 19/6; powder 1/- extra.
- Butyl Chloral Hydras., P.B., 1 lb. @ 8/10 lb.
- C**amphor, English Flowers, "not artificial,"
 5 lbs. @ 2/- lb.; ½ oz. or ¼ oz. 7 lbs. @ 2/-
 lb.
- Cetaceum, No. 1, fine white, 64 lbs. @ 11½d. lb.;
 7 lbs. @ 1/1 lb.; powder, 7 lbs. @ 1/6 lb.
- I**nf. Gentianæ Co., 1 to 7, 6 lbs. @ 1/1 lb.
 Quassia Conc., 1 to 7, 6 lbs. @ 9d. lb.
 Rhei Conc., 1 to 7, 6 lbs. @ 1/6 lb.
 Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
 Senega Conc., 1 to 7, 6 lbs. @ 2/4 lb.
 Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.
- Iodoform Pulv. B.P., 7 lbs. @ 16/6 lb.; 3 lbs. @
 16/10 lb.; 1 lb. @ 17/1 lb.
- Iodum resub. B.P., 7 lbs. @ 14/4 lb.; 1 lb. @
 14/10 lb.
- L**in. Aconiti Meth., 5 lbs. @ 1/2 lb.; 1 lb. @
 1/5 lb.
- Bellad. Meth., 5 lbs. @ 1/5 lb.; 1 lb. @
 1/8 lb.
- Camph. P.B., 40 lbs. @ 1/- lb.; 9 lbs. @
 Sapo Meth., 9 lbs. @ 7d. lb.
- Tereb. Acet., B.P., 5 lbs. @ 1/- lb.
- Linseed c. Oil, Crushed, 3 cwt. @ 17/6 cwt.;
 1 cwt. @ 18/6 cwt.
- M**orphinæ Acet. Hydrochlor. or Sulph., Pulv.
 B.P., 25 oz. @ 8/8 oz.; 16 oz. @ 8/10 oz.;
 8 oz. @ 9/- oz.; 1 oz. @ 10/- oz.; Pur.
 Præcip. Bimeconate or Tart. 1 oz. @ 12/- oz.
- Myrrh, Gum, English Ground, 28 lbs. @ 11d.
 lb.; 7 lbs. @ 1/1 lb.
- O**l. Coco. Nucleis, finest White, 80 lbs. @ 55/-
 cwt.; 40 lbs. @ 57/6 cwt.
- Ol. Eucalypt., B.P., 1 cwt. @ 1/4 lb.; 28 lbs. @
 1/5 lb.; 9 lbs. @ 1/7 lb.
- Ol. Geranii Gall. Opt., 1 lb. @ 28/- lb.; 8 1-oz.
 bots. @ 2/3 oz.; 1 oz. @ 2/6 oz.; Turc.,
 1 lb. @ 12/6 lb.; 4 ozs. @ 15/- lb.
- Ol. Juniperi Bacc., B.P., 44 lbs. @ 3/8 lb.; 1 lb.
 @ 4/1 lb.; Ligne Exot., 1 cwt. @ 1/2 lb.;
 28 lbs. @ 1/4 lb.; 9 lbs. @ 1/5 lb.
- Ol. Lavand. ab Flor., 5 lbs. @ 13/- lb.; 1 lb. @
 13/6 lb.
- S**yr. Hypophosph. Co. B.P.C., 7 lbs. @ 9½d. lb.
 Pruni Virg. B.P., 8 lbs. @ 7½d. lb.
 Rhamni, 7 lbs. @ 10½d. lb.
 Rhei, P.B., 7 lbs. @ 8d. lb.
 Scillæ, P.B., 7 lbs. @ 5d. lb.
 Sennæ, P.B., 7 lbs. @ 8½d. lb.
 Tolut. P.B., 7 lbs. @ 8½d. lb.
- T**inct. Aurantii Recens., B.P., 5 lbs. @
 3/6 lb.; bond, 8½d. Aquos, 10d. lb.
- T**inct. Belladon., B.P., 5 lbs. @ 2/11 lb.;
 bond, 6½d. Aquos, 1/- lb.
- T**inct. Benzoini Comp., P.B., 5 lbs. @ 3/6 lb.;
 bond, 10d.
- T**inct. Camph. Comp. P.B., 5 lbs. @ 2/5 lb.;
 bond, 6½d. Aquos, 1/1 lb.
- T**inct. Cantharidis, P.B., 5 lbs. @ 3/9 lb.;
 bond, 6d. lb.
- T**inct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond,
 6d. lb. Aquos, 10d. lb.
- T**inct. Card. Comp., P.B., 5 lbs. @ 2/8 lb.;
 bond, 7½d. lb. Aquos, 1/- lb.
- T**inct. Catechu, P.B., 5 lbs. @ 2/8 lb.; bond,
 7½d. lb. Aquos, 1/- lb.
- T**inct. Chlorof. c. Morph., B.P. 1885, 5 lbs.
 @ 2/- lb.; bond, 1/6½ lb.
- T**inct. Cinchon. Comp., B.P., 5 lbs. @ 3/5 lb.;
 bond, 1/0½ lb. Aquos, 1/4 lb.
- T**inct. Cinchon. Ruh., P.B., 5 lbs. @ 3/- lb.;
 bond, 10d. lb. Aquos, 1/2 lb.
- T**inct. Digitalis, B.P., 5 lbs. @ 2/8 lb.; bond,
 6½d. lb. Aquos, 1/- lb.
- T**inct. Gelsem. P.B., 5 lbs. @ 2/10 lb.; bond,
 6½d. lb. Aquos, 1/3 lb.
- T**inct. Gentianæ Comp., B.P., 5 lbs. @ 1/11½
 lb.; bond, 7½d. lb. Aquos, 1/- lb.
- T**inct. Hyoscyami, B.P., 5 lbs. @ 2/5 lb.;
 bond, 7½d. lb. Aquos, 1/5 lb.
- T**inct. Iodi. B.P., 5 lbs. @ 4/4 lb.; bond, 1/8
 lb.; decolor., 5 lbs. @ 4/8 lb.; bond, 1/5½.

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 4 ozs. @ 4/10 oz.; 1 oz. @ 5/6 oz.
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- D**isinfectant Fluid, soluble, 45 galls. @ 1/- gall.;
 5 galls. @ 1/4 gall.; 1 gall. @ 1/8 gall.
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 9/- lb.; 6 1-lb. bots. @ 9/9 lb.; not
 guaranteed absolutely pure.
- F**erri Ammon. Cit., P.B., 28 lbs. @ 2/6 lb.;
 7 lbs. @ 2/7 lb.
- F**erri Carb., 1 cwt. @ 21/- cwt.; 28 lbs. @ 3d. lb.
- F**erri et Quinina Cit. P.B., 500 ozs. @ 5½d. oz.;
 100 ozs. @ 6d. oz.; 25 ozs. @ 6½d. oz.
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 28 lbs. @ 3/1 lb.; c. Creta, 28 lbs. @ 1/5
 lb.; Iodid. Rub. 28 lbs. @ 11/3 lb.; Oxid.
 Rub., 28 lbs. @ 3/1 lb.; Perchlor., Lump.
 28 lbs. @ 2/4½ lb.; Subchlor., 28 lbs. @
 2/10 lb.; Sulph. c. Sulph., 28 lbs. @ 2/6
 lb.; 7-lb. quantities 1d lb. extra, 3-lb.
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- I**chthol Ammon. 3 lbs. @ 10/9 lb.; 1 lb. @
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- Buchu Conc., 1 to 7, 6 lbs. @ 2/2 lb.
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- Cascarilla Conc., 1 to 7, 6 lbs. @ 1/4 lb.
- Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb.
- I**nf. Gentianæ Co., 1 to 7, 6 lbs. @ 1/1 lb.
- Quassia Conc., 1 to 7, 6 lbs. @ 9d. lb.
- Rhei Conc., 1 to 7, 6 lbs. @ 1/6 lb.
- Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
- Senega Conc., 1 to 7, 6 lbs. @ 2/4 lb.
- Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.
- Iodoform Pulv. B.P., 7 lbs. @ 16/6 lb.; 3 lbs. @
 16/10 lb.; 1 lb. @ 17/1 lb.
- Iodum resub. B.P., 7 lbs. @ 14/4 lb.; 1 lb. @
 14/10 lb.
- L**in. Aconiti Meth., 5 lbs. @ 1/2 lb.; 1 lb. @
 1/5 lb.
- Bellad. Meth., 5 lbs. @ 1/5 lb.; 1 lb. @
 1/8 lb.
- Camph. P.B., 40 lbs. @ 1/- lb.; 9 lbs. @
 Sapo Meth., 9 lbs. @ 7d. lb.
- Tereb. Acet., B.P., 5 lbs. @ 1/- lb.
- Linseed c. Oil, Crushed, 3 cwt. @ 17/6 cwt.;
 1 cwt. @ 18/6 cwt.
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 B.P., 25 oz. @ 8/8 oz.; 16 oz. @ 8/10 oz.;
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- S**yr. Hypophosph. Co. B.P.C., 7 lbs. @ 9½d. lb.
 Pruni Virg. B.P., 8 lbs. @ 7½d. lb.
 Rhamni, 7 lbs. @ 10½d. lb.
 Rhei, P.B., 7 lbs. @ 8d. lb.
 Scillæ, P.B., 7 lbs. @ 5d. lb.
 Sennæ, P.B., 7 lbs. @ 8½d. lb.
 Tolut. P.B., 7 lbs. @ 8½d. lb.
- T**inct. Aurantii Recens., B.P., 5 lbs. @
 3/6 lb.; bond, 8½d. lb. Aquos, 10d. lb.
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- T**inct. Cantharidis, P.B., 5 lbs. @ 3/9 lb.;
 bond, 6d. lb.
- T**inct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond,
 6d. lb. Aquos, 10d. lb.
- T**inct. Card. Comp., P.B., 5 lbs. @ 2/8 lb.;
 bond, 7½d. lb. Aquos, 1/- lb.
- T**inct. Catechu, P.B., 5 lbs. @ 2/8 lb.; bond,
 7½d. lb. Aquos, 1/- lb.
- T**inct. Chlorof. c. Morph., B.P. 1885, 5 lbs.
 @ 2/- lb.; bond, 1/6½ lb.
- T**inct. Cinchon. Comp., B.P., 5 lbs. @ 3/5 lb.;
 bond, 1/0½ lb. Aquos, 1/4 lb.
- T**inct. Cinchon. Ruh., P.B., 5 lbs. @ 3/- lb.;
 bond, 10d. lb. Aquos, 1/2 lb.
- T**inct. Digitalis, B.P., 5 lbs. @ 2/8 lb.; bond,
 6½d. lb. Aquos, 1/- lb.
- T**inct. Gelsem. P.B., 5 lbs. @ 2/10 lb.; bond,
 6½d. lb. Aquos, 1/3 lb.
- T**inct. Gentianæ Comp., B.P., 5 lbs. @ 1/11½
 lb.; bond, 7½d. lb. Aquos, 1/- lb.
- T**inct. Hyoscyami, B.P., 5 lbs. @ 2/5 lb.;
 bond, 7½d. lb. Aquos, 1/5 lb.
- T**inct. Iodi. B.P., 5 lbs. @ 4/4 lb.; bond, 1/8
 lb.; decolor., 5 lbs. @ 4/8 lb.; bond, 1/5½.

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USER SAYS:

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Gentlemen—
For years I took

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I am, Sirs, yours truly, J. W.

Besides being a grand refresher, Herb Beer made from

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EXTRACT OF HERBS

is cheap. For 2d. you can make a gallon of the most wholesome and invigorating beverage you ever tasted.

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ADVANTAGES:

Bad stock avoided, as Saline can be kept from season to season without deteriorating.

Satisfaction to Consumers.

For export these Tins are indispensable, as Saline can now be shipped without any risk.



X286.

X286 design, 4 oz., 2/9 doz.

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X41P Fruit design, 4 oz. 2/9 doz.

X41/SP „ „ (shorter), 3 oz., 2/3 doz.

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Special designs

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large buyers.

Quotations on

application.

By selling these tins of Saline you will double your trade.

Ordinary lever lid Tins supplied if wanted.



HYGEIA SALT

In square round-cornered tins with ordinary lever lid, very smart decoration, 2/9 doz.

Saline packed in Cheltenham; 6 oz., 4/6 doz., 8 oz. 5/6 doz.

Also sold in bulk; price on application.

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DISPENSING as illustrated, Plain or Graduated.

1 1/2 & 3 oz.	3 & 4 oz.	6 & 8 oz.	10 oz.	12 oz.
7/9	8/-	9/-	13/-	14/6
	16 oz.	20 oz.		
	19/6	21/-		per gross.

GREEN PANELLED (three sides)

1/- per gross extra to above prices up to 8 oz., 2/- extra beyond.

GREEN PANELLED HEAVY (for Cough Mixtures)

2 1/2 oz. 8/9; 5 oz. 10/- per gross.

POISON. Oval Ribbed, Pale Green (for Ammonia)

3 & 4 oz.	5 & 8 oz.	10 oz.	12 oz.	16 oz.	20 oz.
9/6	10/6	13/6	15/-	19/6	21/6
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VIALS and HEXAGON POISONS at proportionately low prices.

TERMS: NET CASH 7 DAYS. GRATES 1/- EACH.

Carriage paid on 6 gross assorted crates up to 100 miles ex Leeds (small extra charge beyond that distance).

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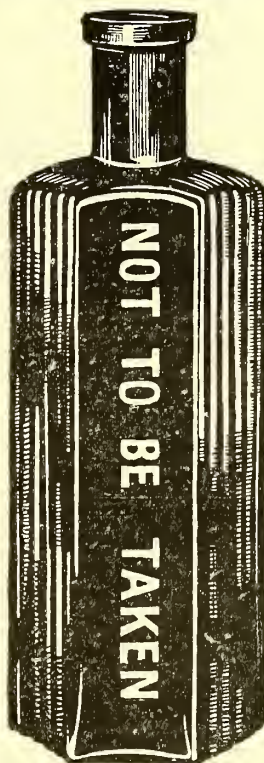
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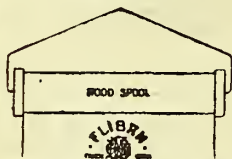
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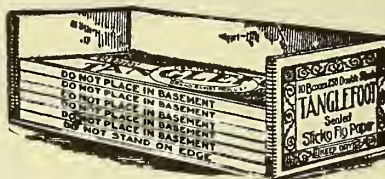
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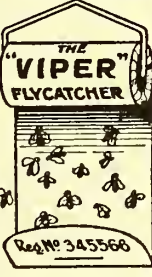
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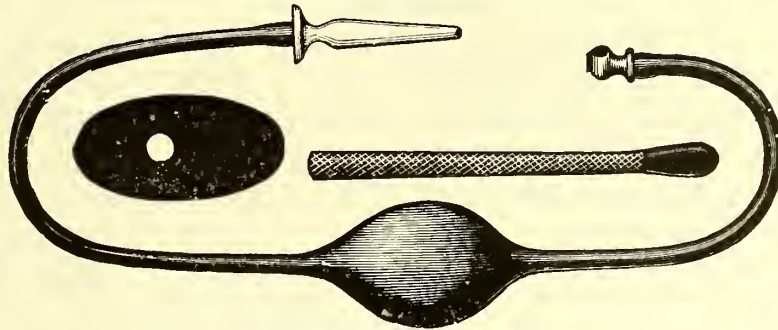
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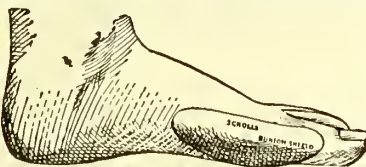
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Tel. Address: "Pillischer London."

Established 1843.

Telephone: 4418 Gerrard.

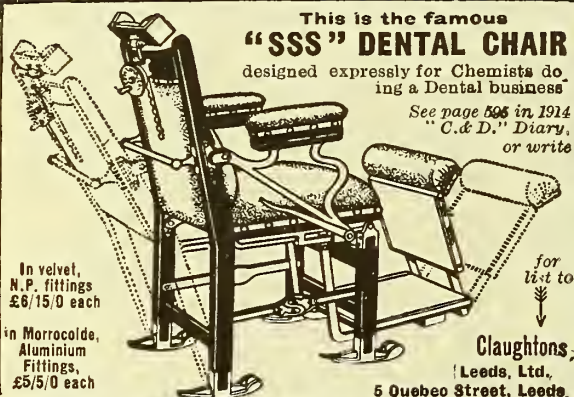
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See page 595 in 1914
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INSTANTLY
DISSOLVES GREASE AND GRIMELiberal
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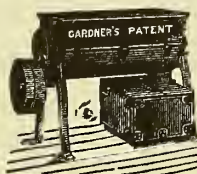
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FOR 10/- we will send you a large parcel as a trial order.
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I have pleasure in enclosing cheque to cover your statement for the Tablet-filling Machine. When your representative was here it ran perfectly, and as soon as we can standardise our bottles I think we shall have the best Tablet-filling Machine on the market.

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Yours faithfully,
THE VENO DRUG CO., Ltd.

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Forgrove Machine wraps Round Medicated Tablets

100 TO 120 PER MINUTE OUTPUT.

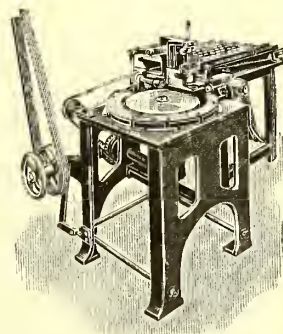
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INTO BOTTLES AND OTHER RECEPTACLES.

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* " " " " " "	1/-	7/-
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CORRESPONDENCE INVITED.

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Food for Babies, Prepared Barley, Brunak, Power, N-F. Cocoa, Biscuits, Soup, Nutbutter (Walnut Brand), Wholemeal, &c.

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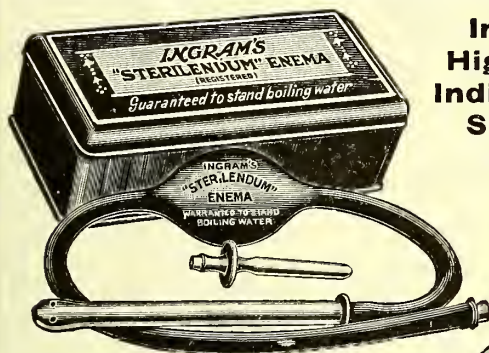
We issue a list of WHOLESALERS who keep above in stock; if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return. See trade mark on all our goods: "T. R. ALLINSON." None Genuine Without.

NATURAL FOOD COMPANY, LIMITED,
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N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade.

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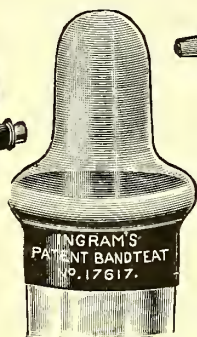


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Packed in highly enamelled box.
Obtainable from Wholesale Houses.

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Ingram's High Grade India-Rubber Surgical Goods.



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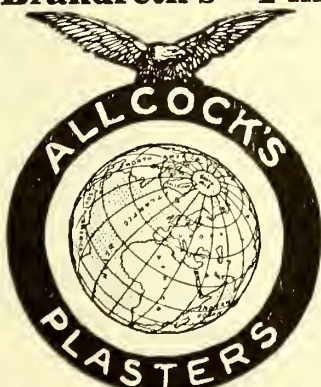
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Absorbent Cotton Lints, Wools, Gauzes, Roll Bandages, either plain or medicated with Antiseptics according to the directions of Lord Lister.

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32 x 32, 26 x 20, 24 x 18.

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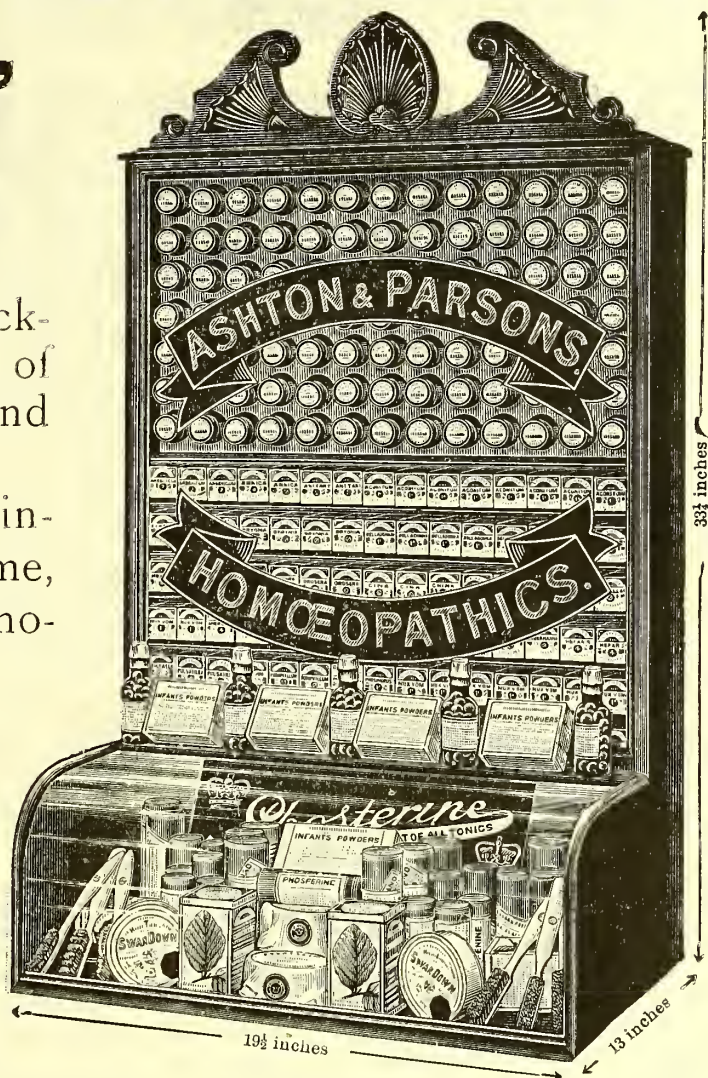
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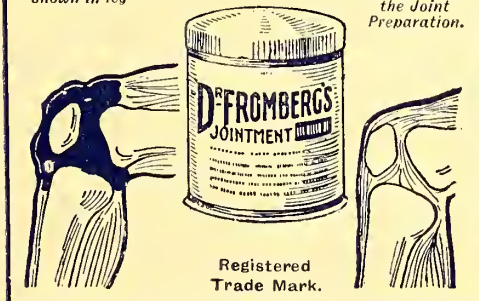
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